

## Table of Contents

LV_Allentown_040412.pdf	3
LC_Catasauqua_041812.pdf	12
LC_Coplay_040412.pdf	38
LC_Fountain_040412.pdf	48
LC_Hanover_040412.pdf	58
LC_LowerMac_040412.pdf	69
LC_LowerMilford_040412.pdf	110
LC_Lowhill_040412.pdf	119
LC_Macungie_040412.pdf	127
LC_NorthWhitehall_040412.pdf	134
LC_Salisbury_040412.pdf	139
LC_SouthWhitehall_040412.pdf	140
LC_UpperMac_040412.pdf	150
LC_UpperMilford_040412.pdf	160
LC_UpperSaucon_040412.pdf	172
LC_Washington_040412.pdf	178
LC>Weisenberg_040412.pdf	188
LC_Whitehall_040412.pdf	196
NC_AllenTwp_040612.pdf	210
NC_BangorBoro_040612.pdf	214
NC_Bushkill_040612.pdf	231
NC_EastAllen_040612.pdf	251
NC_EastBangor_040612.pdf	265
NC_Hanover_040612.pdf	267

NC_Hellertown_040612.pdf	269
NC_LowerSaucon_040612.pdf	285
NC_Nazareth_040612.pdf	289
NC_Northampton_040612.pdf	291
NC_PenArgyl_040612.pdf	301
NC_Plainfield_040612.pdf	306
NC_Tatamy_040612.pdf	308
NC_UpperMtBethel_040612.pdf	318
NC_Walnutboro_040612.pdf	330
NC_Washington_040612.pdf	342
NC_Williams_040612.pdf	361
NC_WilsonBoro_040612.pdf	371

LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: 11/29/2011

Municipality/Organization: City of Allentown

County: Lehigh

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 \_\_\_\_\_ Check here if you want access to the project SharePoint site

Name: Robert Scheirer

Title/Department: Fire Chief

Address: 641 510TH Street

Telephone: 610 437-7765

Fax: 610 437-

E-mail: Scheirer R @ allentown-city.org

Contact #2 (optional) \_\_\_\_\_ Check here if you want access to the project SharePoint site

Name: \_\_\_\_\_

Title/Department: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail

☒ Regular Mail

☒ Telephone



## Evaluation of Identified Hazards and Risk

Name: Robert Schorner  
City of Allentown

Title: Fire Chief / EMC

Jurisdiction: \_\_\_\_\_

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	N/C	
Earthquake	I	minor in 2011
Extreme Temperature*	I	2011 both cooling & warming extremes
Flood, Flash Flood, Ice Jam	I	very wet 2011
Hailstorm*	I	more than usual in 2011
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	I	several in Lehigh County
Tornado, Wind storm*	I	several wind storms in 2011
Wildfire	NC	
Winter Storm	D	

\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.



## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |  |  |
|--|--|
| <input type="checkbox"/> Avalanche/Glacier                     | <input type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                       | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                      | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                       | <input type="checkbox"/> Volcano                         |
| <input type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

#### *Human-Made*

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident                     |
| <input checked="" type="checkbox"/> Civil Disturbance              | <input checked="" type="checkbox"/> Terrorism                 |
| <input type="checkbox"/> Dam Failure                               | <input checked="" type="checkbox"/> Transportation Accidents  |
| <input type="checkbox"/> Disorientation                            | <input checked="" type="checkbox"/> Urban Fire and Explosion  |
| <input type="checkbox"/> Drowning                                  | <input checked="" type="checkbox"/> Utility Interruption      |
| <input type="checkbox"/> Environmental Hazards                     | <input checked="" type="checkbox"/> War and Criminal Activity |
| <input type="checkbox"/> Levee Failure                             |   |

### Other Comments

### Appendix 3: Capability Assessment Survey

Jurisdiction: City of Allentown

Point of Contact Name and Title: Fire Chief/Comm

Phone: 610-439-7765

Email: Robert.Sexton@AllentownPA.gov

**1. Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate its estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support 0 Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
EXAMPLE: Hazard Mitigation Plan	X	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	4-9-11		Allentown EMA	+	+	
Emergency Operations Plan	X	4-9-11		"	+	+	
Disaster Recovery Plan			X				
Evacuation Plan	X	4-9-11		"	0	-	
Continuity of Operations Plan	X	4-9-11		"	0	-	
NFIP							
NFIP - Community Rating System							
Floodplain Regulations (Spec. NFIP Flood Damage Prevention Ordinance)							
Floodplain Management Plan	X	4-9-11		Allentown EMA	0	-	



# Appendix 3: Capability Assessment Survey

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support 0 Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
Zoning Regulations	X	07/2013		City of Lehigh Valley			
Subdivision Regulations	X	07/2013		City of Lehigh Valley			
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	X	07/2013		City of Lehigh Valley			
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X	07/2013		City of Lehigh Valley			
Stormwater Management Plan / Ordinance	X	07/2013		City of Lehigh Valley			
Natural Resource Protection Plan							
Capital Improvement Plan	X	07/2013		City of Lehigh Valley			
Economic Development Plan	X	07/2013		City of Lehigh Valley			
Historic Preservation Plan	X	07/2013		City of Lehigh Valley			
Farmland Preservation							
Building Code	X	07/2013		City of Lehigh Valley			
Fire Code	X	07/2013		City of Lehigh Valley			
Firewise							
Storm Ready							
Other							

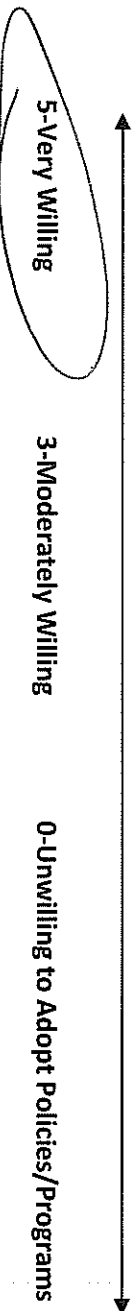
2. **Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		Public works	
Planners or engineers (with natural and/or human caused hazards knowledge)	X		Public works	
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)	X		Public works	
Emergency Manager	X		Fire	
NFIP Floodplain Administrator				
Land Surveyors				
Scientists or staff familiar with the hazards of the community				
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program	X		Public works	
Grant writers or fiscal staff to handle large/complex grants	X		City Admin.	
Staff with expertise or training in Benefit-Cost Analysis	X		Human Res.	
Other				

3. **Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources **for hazard mitigation purposes** (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming	X		Economic Dev	
Community Development Block Grants (CDBG)	X		" "	
Special Purpose Taxes	X		" "	
Gas / Electric Utility Fees	X		Finance	
Water / Sewer Fees	X		Public Works	
Stormwater Utility Fees	X		" "	
Development Impact Fees	X		" "	
General Obligation, Revenue, and/or Special Tax Bonds	X		Finance	
Partnering Arrangements or Intergovernmental Agreements	X		City Admin.	
Other				

**4. Community Political Capability:** Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

	Score: <u>5</u>
5-Very Willing	3-Moderately Willing
0-Unwilling to Adopt Policies/Programs	

5. **Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			X
Administrative and Technical Capability			X
Fiscal Capability		X	
Community Political Capability			X
Community Resiliency Capability			X

LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetratech.com](mailto:jonathan.raser@tetratech.com)

Date: 11/29/11

Municipality/Organization: BOROUGH OF CATASAUGUS

County: LEHIGH

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):

\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint site

Name: JOSEPH M. CARL

Title/Department: EMERGENCY MANAGEMENT COORD. / CATASAUGUS EMERGENCY MANAGEMENT

Address: 118 BRIDGE ST. CATASAUGUS, PA 18032

Telephone: 484-614-4465

Fax: 610-264-8228

E-mail: carlj@catasaugusems.org

Contact #2 (optional) ☒ Check here if you want access to the project SharePoint site

Name: EUGENE GOLDFEDER

Title/Department: BOROUGH MANAGER / BOROUGH OF CATASAUGUS

Address: 118 BRIDGE ST. CATASAUGUS, PA 18032

Telephone: 610-264-0571

Fax: 610-264-8228

E-mail: manager@catasaugus.gov

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone





Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

BOROUGH SEWER PLANT (FLOODING)  
ALONG CATAWAUGA CREEK (FLOODING)  
SINKHOLES / 14<sup>TH</sup> AND WALNUT STS.  
BOROUGH SWIMMING POOL / PARK (FLOODING)

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

FLOODWALL TO PROTECT BOROUGH SEWER PLANT  
SECURITY SYSTEM FOR WATERWORKS AND SEWER PLANT

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.

NOT COMPLETE AT THIS TIME  
FLOODING  
SINKHOLES  
INFRASTRUCTURE PROTECTION  
PERSONAL CARE HOMES  
EDUCATIONAL FACILITIES / DAY CARE / APARTMENT FOR THE ELDERLY  
INUNDATION AREAS FOR UPSTREAM DAM FAILURE  
UTILITY FAILURES (WATER, ELECTRIC, NATURAL GAS, SEWER)



Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

- BOROUGH HAS EXPERIENCED NUMEROUS SINKHOLES OVER THE YEARS. IN 2011 INCIDENT AFFECTED PART OF BOROUGH WATER SYSTEM WITH NO WATER FOR SEVERAL DAYS AND A BOROUGH WIDE BOIL WATER ADVISORY. SINKHOLE ALSO AFFECTED ROADWAY, SIDEWALK, PARKING LOT AND AN APARTMENT BUILDING THAT LEAD TO A PARTIAL EVACUATION.
- FLOODING ALONG CATASAUQUA CREEK AND LEHIGH RIVER LEAD TO FLOODING OF CLARIFIAS AT SEWER PLANT, DAMAGES TO BOROUGH PARK/POOL WARS/PUMPS, DISRUPTED ALL BRIDGES OVER CATASAUQUA CREEK EXCEPT ONE LIMITED ACCESS AND TRANSPORTATION, DEGRAS IN STREAM BED, UP TO \$5-6 MILLION DOLLAR LOSS IN BUSINESSES.

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

- FLOOD WALL FOR PROTECTION FROM LEHIGH RIVER FLOODING AT BOROUGH SEWER PLANT
- STORM WATER RETENTION POND/FLOOD CONTROL PROJECT / DRAINAGE IMPROVEMENTS 10TH ST.
- ADDITIONAL ALARMS AND SECURITY CAMERAS FOR SEWER PLANT, WATER WORKS, BOROUGH HALL, PUBLIC WORKS, POLICE AND FIRE STATIONS
- CATASAUQUA CREEK WALL IMPROVEMENTS TO PROTECT POOL/RECREATION AREA FROM FLOODING

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.

- INFRASTRUCTURE SECURITY ALARMS/CAMERAS
- FIRE PREVENTION ACTIVITIES DUE TO AGING STRUCTURES AND INCREASED DEMOGRAPHIC DIVERSITY IN INCOMES/JOB STATUS/AGING POPULATION
- PERIODIC EMERGENCY PREPAREDNESS FAIR TO HIGHLIGHT HAZARD/ BRING ATTENTION TO PREPAREDNESS ACTIVITIES
- AGING, OUTDATED FIRE STATIONS AND APPARATUS VS INCREASED FIRE HAZARD DUE TO AGE OF STRUCTURES WITHIN BOROUGH, INADEQUATE POLICE STATION FACILITIES, INADEQUATE EMERGENCY OPERATIONS CENTER, LACK OF ABILITY TO PROVIDE BACKUP POWER TO THESE FACILITIES.



DMA 2000 Hazard Mitigation Plan Update - Lehigh Valley, Pennsylvania TO THESE FACILITIES.

## Evaluation of Identified Hazards and Risk

Name: JOSEPH M. CARLTitle: EMERGENCY MANAGEMENT COORD.Jurisdiction: BOROUGH OF CATASAUGUA

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?		Additional Comments
	NC = No Change; I = Increase; D = Decrease		
	(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)		
Natural Hazards			
Drought	I	STATE DROUGHT DECLARATION	
Earthquake	I	EARTHQUAKE FELT IN LAST YEAR WHICH CENTERED IN VA	
Extreme Temperature*	NC		
Flood, Flash Flood, Ice Jam	I	MINOR FLOODING ALONG LEHIGH RIVER, MAJOR FLASH FLOODING IN JULY ALONG CATASQUA CREEK	
Hailstorm*	NC		
Landslide*	NC		
Lightning Strike*	NC		
Radon Exposure*	NC		
Subsidence, Sinkhole	I	SINKHOLE DISRUPTION TO WATER SYSTEM AND APT. COMPLEX	
Tornado, Wind storm*	NC		
Wildfire	NC		
Winter Storm	NC		

\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.

## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |   |   |
|---|---|
| <input type="checkbox"/> Avalanche/Glacier                                | <input type="checkbox"/> Invasive Species                           |
| <input type="checkbox"/> Coastal Erosion                                  | <input checked="" type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                                 | <input type="checkbox"/> Tsunami                                    |
| <input type="checkbox"/> Expansive Soils                                  | <input type="checkbox"/> Volcano                                    |
| <input checked="" type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |   |

#### *Human-Made*

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident                    |
| <input checked="" type="checkbox"/> Civil Disturbance              | <input checked="" type="checkbox"/> Terrorism                |
| <input checked="" type="checkbox"/> Dam Failure                    | <input checked="" type="checkbox"/> Transportation Accidents |
| <input type="checkbox"/> Disorientation                            | <input checked="" type="checkbox"/> Urban Fire and Explosion |
| <input checked="" type="checkbox"/> Drowning                       | <input checked="" type="checkbox"/> Utility Interruption     |
| <input checked="" type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity           |
| <input type="checkbox"/> Levee Failure                             |  |

### Other Comments



### Appendix 3: Capability Assessment Survey

Jurisdiction: SURROUND OF CATASAUQU

Point of Contact Name and Title: JOSEPH M. CARL (EMC)

Phone: 484-614-4465

Email: carl.jm@rcn.com

1. **Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate it's estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	In Place	Status Date Adopted or Updated	Under Development	Dept./Agency Responsible	Effect on Loss Reduction:		Change Since Last Plan:		Comments
					+ Support O Neutral - Hinder		+ Positive - Negative		
EXAMPLE: Hazard Mitigation Plan	X	1/1/2005		Hazard County EMA	+		+		Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	4/2006		LEHIGH COUNTY EMA	+		+		
Emergency Operations Plan	X	ADOPTED 6/2003	X	CATASAUQU EMA	+		+		UPDATED ANNUALLY MAJOR UPDATE IN PROGRESS
Disaster Recovery Plan									
Evacuation Plan			X	CATASAUQU EMA					PAGE OF EOP REWRITE
Continuity of Operations Plan			X	CATASAUQU EMA					PAGE OF EOP REWRITE
NFIP	X	7/2/2004		FEMA FLOOD ZONING	+				
NFIP - Community Rating System									
Floodplain Regulations (spec. NFIP Flood Damage Prevention Ordinance)	X			FLOOD ZONING AND BUILDING	+		+		
Floodplain Management Plan									



Tool / Program	In Place	Status		Under Development	Dept./Agency Responsible	Effect on Loss Reduction:		Change Since Last Plan:		Comments
		Date Adopted or Updated				+ Support O Neutral - Hinder		+ Positive - Negative		
Zoning Regulations	X	2/2/2001			Boro Zoning Office	+		+		
Subdivision Regulations	X	12/19/2011			Boro Zoning/Engineering	+		+		
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	X	8/2/99			Boro Planning Comm.	+		+		
Open Space Management Plan (or Parks/Rec or Greenways Plan)										
Stormwater Management Plan / Ordinance	X	10/4/2004			Boro Planning and Zoning	+		+		
Natural Resource Protection Plan										
Capital Improvement Plan										
Economic Development Plan										
Historic Preservation Plan										
Farmland Preservation										
Building Code	X	6/7/2004			Boro Building Official	+		+		
Fire Code	X	6/5/1995			Boro Building Official	O				
Firewise										
Storm Ready			X		CATAQUA EMA					ATTEMPTING TO MEET REGULATION w/ EOP REVISIONS
Other										

2. Administrative and Technical Capability: Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources		Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)		X		BOONICK PLANNING COMMITTEE AND ENGINEER	
Planners or engineers (with natural and/or human caused hazards knowledge)		X		BOONICK PLANNING COMMITTEE AND ENGINEER	
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)		X		BOONICK BUILDING OFFICIAL AND ENGINEER	
Emergency Manager		X		CANTASQUA EMA	
NFIP Floodplain Administrator		X		BOONICK MANAGER	
Land Surveyors					
Scientists or staff familiar with the hazards of the community					
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program					
Grant writers or fiscal staff to handle large/complex grants		X		BOONICK MANAGER	
Staff with expertise or training in Benefit-Cost Analysis		X		BOONICK MANAGER	
Other					

3. **Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources *for hazard mitigation purposes* (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming	X		Borough Council / manager	
Community Development Block Grants (CDBG)	X		Lehigh County	VERY LIMITED OPPORTUNITIES
Special Purpose Taxes				
Gas / Electric Utility Fees				
Water / Sewer Fees	X		Borough Council	
Stormwater Utility Fees	X			WE ARE NOT AUTHORIZED TO IMPOSE THESE FEES AT CURRENT
Development Impact Fees	X			COULD DEVELOP APPROPRIATE ORDINANCES
General Obligation, Revenue, and/or Special Tax Bonds	X		Borough Council / manager	
Partnering Arrangements or Intergovernmental Agreements	X		Borough Manager	CAN PARTNER WITH ALMOST ANY GOVERNMENT IN USA
Other				



4. **Community Political Capability:** Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing

3-Moderately Willing

0-Unwilling to Adopt Policies/Programs

Score: 3

- 5. Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			X
Administrative and Technical Capability		X	
Fiscal Capability	X		
Community Political Capability		X	
Community Resiliency Capability		X	

# Goal and Objective Review Worksheet

Municipality Berouge of Catawug

Goals – From 2006 Plan	Keep/Still Applies? (Yes/No – if “No” then please provide your reason)	Modify As Follows	Supported local risk reduction? (Yes/No)
Goal 1: To minimize the risk to human life associated with natural hazards.	Keep/yes		
Goal 2: To promote hazard avoidance, especially in floodplains, by removing high-risk and repetitive loss structures and through restrictions on future development.	yes		
Goal 3: To reduce the damages from natural hazards to existing and future public and private assets including structures, critical facilities and infrastructure.	yes		
Goal 4: To protect and restore existing natural resources including wetlands, floodplains and riparian buffers.	yes		
Goal 5: To develop, prioritize and implement cost-effective, long term actions that will reduce the impacts of natural hazards.	yes		



# Goal and Objective Review Worksheet

Municipality Borough of Catasauque

Goals -- From 2006 Plan	Keep/Still Applies? (Yes/No -- if "No" then please provide your reason)	Modify As Follows	Supported local risk reduction? (Yes/No)
Goal 6: To recommend local regulations to reduce the impacts of natural hazards.	YES		
Goal 7: To enhance planning and emergency response efforts among federal, state, county and local emergency management personnel to protect public health and safety.	YES		
Goal 8: To promote public awareness on both the potential impacts of natural hazards and actions to reduce those impacts.	YES		
New Goal(s)? • New goal regarding non-natural hazards or revise existing goal(s) to include non-natural hazards?		I BELIEVE THE SAME GOALS SHOULD BE USED BUT "NON-NATURAL HAZARDS" SHOULD BE EITHER INSERTED IN THESE GOALS OR REPLICATED THESE GOALS USING NON-NATURAL HAZARDS.	

## Mitigation Project Capture Sheet

<b>Contact Information:</b> Name: JOSEPH M. CARL Title: EMERGENCY MANAGEMENT COORDINATOR Department/Agency: CATASAUQUA EMERGENCY MANAGEMENT AGENCY Telephone: 610-264-0571 (CELL) 484-614-4465	
<b>Project Location:</b> CATASAUQUA WATER WORKS, WASTE WATER TREATMENT PLANT CATASAUQUA POOL, CATASAUQUA FIRE DEPT, CATASAUQUA POLICE DEPT, CATASAUQUA PUBLIC WORKS FACILITIES	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced: UPGRADE AND EXPAND EXISTING CAMERA SYSTEM FOR SECURITY OF CRITICAL INFRASTRUCTURE, HAZ-MAT STORAGE FACILITIES. CURRENT CAMERA SYSTEM DOES NOT COVER CRITICAL INFRASTRUCTURE TO GUARD AGAINST ATTACK/INTRUSION, OTHER SECURITY MATTERS. CURRENT CAMERA SYSTEM CANNOT BE EXPANDED ALSO ADD/UPGRADE SECURITY ALARM SYSTEMS FOR CRITICAL INFRASTRUCTURE	
<b>Lead Agency:</b> CATASAUQUA POLICE DEPT.	<b>Support Agencies:</b> CATASAUQUA PUBLIC WORKS CATASAUQUA FIRE, CATASAUQUA EMA
<b>Project Cost:</b> MEDIUM	<b>Funding Source (if known):</b>
<b>Timeline:</b> OG/DOF	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years. Long Term = 5 years or greater. OG = On-going program. DOF = Depending on funding.

## Mitigation Project Capture Sheet

**Contact Information:**

Name: JOSEPH M. CARL

Title: EMERGENCY MANAGEMENT COORDINATOR

Department/Agency: BOROUGH OF CATASQUOGA EMERGENCY MANAGEMENT AGENCY

Telephone: 610-264-0571 (CELL) 484-614-4465

**Project Location:** BOROUGH OF CATASQUOGA WASTEWATER TREATMENT PLANT  
FLOOD WALL - 18 W. RACE ST (REAR) ALONG LEHIGH RIVER.

**Project Description** (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced:

BUILD FLOOD WALL ALONG LEHIGH RIVER TO PROTECT MUNICIPAL WASTEWATER TREATMENT PLANT FROM LEHIGH RIVER FLOODING. PLANT HAS EXPERIENCED FLOODING OF EQUIPMENT NUMEROUS TIMES IN RECENT YEARS. FLOODING ALSO PROHIBITS PLANT FROM EFFECTIVELY RELEASING TREATED WATER BACKING UP PROCESSER WITHIN THE PLANT CONFINES AND EFFECTIVELY TREAT SEWAGE. PLANT IS SCHEDULED FOR UPGRADES AND THE FLOOD WALL HAS ALSO BEEN SUGGESTED BY DEP AND THE DRBC DUE TO ELEVATION CONCERN, CONTRIBUTING TO PLANT FLOODING.

<b>Lead Agency:</b> BOROUGH MANAGER'S OFFICE	<b>Support Agencies:</b> CATASQUOGA SEWER AUTHORITY CATASQUOGA EMA, DEP, DRBC
<b>Project Cost:</b> \$ 1,000,000.00 (HIGH)	<b>Funding Source (if known):</b> LOCAL FUNDING
<b>Timeline:</b> SHORT	

**Costs:**

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

**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 reappropriation 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.

**Funding Source:**

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

**Timeline:**

**Short** = 1 to 5 years. **Long Term** = 5 years or greater. **OG** = On-going program. **DOF** = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information:</b> Name: JOSEPH M. CARL Title: EMERGENCY MANAGEMENT COORDINATOR Department/Agency: BOROUGH OF CATASAUGUS EMERGENCY MANAGEMENT AGENCY Telephone: 610-264-0571 (CELL) 484-614-4465	
<b>Project Location:</b> CULVERT ADJACENT TO EAST CATTY WOODS FROM 14TH ST. CROSSING TO CONFLUENCE WITH CATASAUGUS CREEK	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced: RESIZE PIPING AT 14TH ST AND 10TH ST CROSSINGS TO HANDLE INCREASED RUNOFF DUE TO CONSTRUCTION THROUGHOUT DRAINAGE AREA FEEDING THIS CULVERT. BUILD STORM WATER RETENTION AREA TO CONTROL AND MANAGE RUNOFF. STABILIZE CULVERT AND MANAGE FLOWS AT CONFLUENCE WITH CATASAUGUS CREEK. DEBRIS REMOVAL FROM CULVERT. RECENT INCREASED RUNOFF HAS CAUSED INCREASED FLOODING AND PROPERTY DAMAGE AT 10TH ST., LOWER END OF UNION ST NEAR FORMER RAIL CROSSING, INDUSTRIAL AREA ALONG CATASAUGUS CREEK NORTH OF RACE ST. AFFECTED ALL THREE PRIVATE HOMES, THREE BUSINESSES. RECENT FLOODING HAD APPROX \$2 MILLION IN DAMAGES.	
<b>Lead Agency:</b> CATASAUGUS EMA	<b>Support Agencies:</b> BOROUGH MANAGER CATASAUGUS PUBLIC WORKS
<b>Project Cost:</b> HIGH	<b>Funding Source (if known):</b>
<b>Timeline:</b> SHORT	

**Costs:**

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

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.

**Funding Source:**

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

**Timeline:**

Short = 1 to 5 years. Long Term = 5 years or greater. OG = On-going program. DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information:</b> Name: JOSEPH M. CARL Title: EMERGENCY MANAGEMENT COORDINATOR Department/Agency: CATASAUQUA EMERGENCY MANAGEMENT AGENCY Telephone: 610-264-0571 (CELL) 484-614-4465	
<b>Project Location:</b> CATASAUQUA PLAYGROUND / CATASAUQUA CREEK RETENTION WALL	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced:  REPAIR/REPLACE/UPDATE WALL AS NEEDED TO PROTECT CATASAUQUA POOL, POOL PUMP STATION AND PARK FACILITIES FROM FLOODING AND EROSION. MOST RECENT FLOOD KNOCKED DOWN PARK FENCING, FILLED MUNICIPAL POOL WITH MUD AND CAUSED THE NEED FOR EXTENSIVE REPAIRS TO PUMPS AND PUMP MOTORS FOR POOL.	
<b>Lead Agency:</b> CATASAUQUA PUBLIC WORKS	<b>Support Agencies:</b> BOROUGH MANAGER CATASAUQUA EMERGENCY MANAGEMENT
<b>Project Cost:</b> MEDIUM	<b>Funding Source (if known):</b>
<b>Timeline:</b> OG / DOF	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years. Long Term = 5 years or greater. OG = On-going program. DOF = Depending on funding.



## Mitigation Project Capture Sheet

<b>Contact Information:</b> Name: JOSEPH M. CARL Title: EMERGENCY MANAGEMENT COORDINATOR Department/Agency: CATASAUQUA EMERGENCY MANAGEMENT AGENCY Telephone: 610-264-0571 (CELL) 484-614-4465	
<b>Project Location:</b> BOROUGH OF CATASAUQUA FIRE DEPT./EMERGENCY MANAGEMENT AGENCY/POLICE DEPT.	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced:  UPGRADE/CONSTRUCT NEW FACILITIES TO REPLACE 100 YEAR OLD FIRE STATIONS, OUTDATED POLICE STATION AND BUILD AND EQUIP AN EOC WITH EMERGENCY POWER, SLEEP FACILITIES, STRUCTURALLY SOUND BUILDING CAPABLE OF OPERATING AS AN EMERGENCY OPERATIONS CENTER, POTENTIAL SHELTER, DURING SEVERE WEATHER EVENTS, UTILITY OUTAGES AND EMERGENCY INCIDENTS. CURRENT FIRE STATIONS ARE FRAGILY UNsound/DEFICIENT AND CANNOT ADEQUATELY HOUSE FIRE EQUIPMENT ON NORMAL DAILY LET ALONE DURING A DISASTER.	
<b>Lead Agency:</b> CATASAUQUA FIRE DEPT.	<b>Support Agencies:</b> CATASAUQUA POLICE DEPT. CATASAUQUA EMA
<b>Project Cost:</b> HIGH	<b>Funding Source (if known):</b>
<b>Timeline:</b> SHORT	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

**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 reappropriation 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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

**Short** = 1 to 5 years. **Long Term** = 5 years or greater. **OG** = On-going program. **DOF** = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information:</b> Name: JOSEPH M. CARL Title: EMERGENCY MANAGEMENT COORDINATOR Department/Agency: CATASAUQUA EMERGENCY MANAGEMENT AGENCY Telephone: 610-264-0571 (CELL) 484-614-4465	
<b>Project Location:</b> BOROUGH OF CATASAUQUA FIRE DEPT. / POLICE DEPARTMENT AND EMERGENCY MANAGEMENT AGENCY	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced: LOOKING TO EXPAND FIRE PREVENTION EFFORTS BEYOND SCHOOLS AND EMERGENCY PREPAREDNESS PUBLIC EDUCATION THROUGH A ENLARGED AND ENHANCED EMERGENCY PREPAREDNESS FAIR, SUCH AN EVENT NOT HELD IN 5 YEARS DUE TO MANPOWER AND FUNDING. BOROUGH HAS EXPERIENCED RECENT WATER AND ELECTRICITY OUTAGES IN ADDITION TO MAJOR BRIDGE CLOSURES AND FLOODING WHICH INDICATED LACK OF PREPAREDNESS ON THE PART OF CITIZENS TO EQUIP THEMSELVES FOR AN EMERGENCY AND UNDERSTAND THE CURRENT INFORMATION AND WARNING SYSTEM IN USE.	
<b>Lead Agency:</b> CATASAUQUA EMA.	<b>Support Agencies:</b> CATASAUQUA FIRE DEPT. CATASAUQUA POLICE DEPT.
<b>Project Cost:</b> LOW	<b>Funding Source (if known):</b>
<b>Timeline:</b> OG / DOF	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.    Long Term = 5 years or greater.    OG = On-going program.    DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information:</b> Name: JOSEPH M. CARL Title: EMERGENCY MANAGEMENT COORDINATOR Department/Agency: CATASAUQUA EMERGENCY MANAGEMENT AGENCY Telephone: 610-264-0571 (CELL) 484-614-4465	
<b>Project Location:</b> BOROUGH OF CATASAUQUA, BOROUGH WIDE LOW POWER AM EMERGENCY RADIO STATION	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced: CONSTRUCT A LOW POWER AM RADIO STATION TO SUPPLEMENT ALERTING AND NOTIFICATION SYSTEMS WHICH HAVE PROVEN AS PRESENTIAL DURING EMERGENCIES. LOW POWER AM RADIO STATION WOULD TIE TOGETHER EXISTING NOTIFICATION AND WARNING SYSTEMS, WOULD ALLOW DIRECT AND IMMEDIATE ACCESS TO PUBLIC DURING AN EMERGENCY AND WOULD ALLOW POLICE, FIRE, EMA AND SCHOOL DISTRICT TO BROADCAST EMERGENCY INFORMATION. WOULD HAVE PROVEN USEFUL DURING RECENT FLOODING, ELECTRIC AND WATER OUTAGES, BOIL WATER ADVISORIES AND SCHOOL DISMISAL DURING	
<b>Lead Agency:</b> CATASAUQUA EMA	<b>Support Agencies:</b> FIRE AND SEVERE STORM/ CATASAUQUA FIRE DEPT, POLICE DEPT, SCHOOL DIST.
<b>Project Cost:</b> MEDIUM	<b>Funding Source (if known):</b>
<b>Timeline:</b> DOF	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

**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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

**Short** = 1 to 5 years. **Long Term** = 5 years or greater. **OG** = On-going program. **DOF** = Depending on funding.

**Lehigh Valley Hazards Mitigation Plan Update:  
Survey for County Firefighters**

**Hazard Mitigation:** *any action taken to reduce the loss of life and property by lessening the impact of disasters (natural, technological and man-made). It is often considered the first of the four phases of emergency management: mitigation, preparedness, response, and recovery.*

**Background**

Lehigh and Northampton Counties are currently updating their 2006 Hazard Mitigation Plan (HMP). This update is required by the Federal Emergency Management Agency (FEMA) in order to remain eligible for federal mitigation grant funding. The HMP must provide a "blueprint" by which local governments can make coordinated, cost-effective efforts towards reducing losses from hazards (floods, severe storms, wildfires, sinkholes, etc.). More information about this planning process may be found at the Lehigh Valley Hazard Mitigation Plan website by going to <http://www.nc911.org> and selecting the "Hazard Mitigation" link.

**Purpose**

The following survey is designed to help identify general needs for mitigation within the Lehigh Valley from your perspective, as well as to identify specific projects that may be included in the update to the mitigation plan.

**Directions**

Please review and answer the following questions regarding potential mitigation that affects fire departments in the Lehigh Valley. Please check "Yes" or "No". **If you indicate "No", please tell us why.** Provide as much detail as possible to support your choice in the Comments box. Feel free to attach extra sheets if necessary. Where possible, identify specific areas (locations, facilities, programs, policies, etc.) that need to be improved, and your suggestions for possible improvements. Please mark locations/facilities on the map provided. **If there are other important issues that you feel are not covered by the survey questions, please let us know.**

**Survey**

- 1.) Do you think that critical and essential facilities (incl. fire stations, shelters, and medical centers) are disaster-resistant (e.g. are properly located and constructed, and have back-up power as appropriate)?

YES ☐ NO ☒

CURRENTLY THE FIRE STATIONS WITHIN CATASAUGUA HAVE ALL BEEN IDENTIFIED WITH CRITICAL OR STRUCTURAL DEFICIENCIES ON A NORMAL EVERY DAY BASIS. MANY OF THE FACILITIES WERE BUILT AROUND 1960. NO FIRE STATIONS HAVE BACK UP POWER. THE EOC AND POLICE STATION DO NOT HAVE BACK UP POWER. OUR BELIEF IS THAT THESE FACILITIES WOULD EXPERIENCE GREAT DIFFICULTIES UNDER DISASTER CONDITIONS. PLANS HAVE BEEN IN THE WORKS FOR YEARS TO BUILD A NEW FIRE STATION BUT HAVE NEVER COME TO FRUITION.

- 2.) Do you think that the transportation infrastructure (e.g. roads and bridges) is properly designed to withstand damage due to natural hazards?

YES ☐ NO ☒

**Comments:**

MOST OF THE BRIDGES IN CATASQUA OVER THE LEHIGH RIVER HAVE BEEN IDENTIFIED AS DEFICIENT. AT LEAST ONE LEHIGH RIVER CROSSING WILL BE CLOSED AT ANY GIVEN TIME THROUGH 2016 FOR REPAIR OR TO RECONSTRUCT THE BRIDGES. ALSO DURING A RECENT FLOODING EVENT, 4 OUT OF 5 CATASQUA CREEK BRIDGES WERE CLOSED DUE TO FLOODING. THE CATASQUA CREEK BRIDGE HAS ALSO BEEN IDENTIFIED AS DEFICIENT AT RACE ST.

- 3.) Do you think that utility infrastructure (spec. electricity and communications) are sufficiently disaster-resistant to support fire department functions during natural hazard events?

YES ☐ NO ☒

**Comments:**

DUE TO FAILURES ON THE ELECTRIC DISTRIBUTION SYSTEM CATASQUA HAS EXPERIENCED MULTI-HOUR ~~OUTAGES~~ <sup>OUTAGES</sup> ALSO LARGE AGING TREES ARE COMMON IN CATASQUA THREATENING ELECTRIC DISTRIBUTION AND TELEPHONE WIRES. OUTAGES HAVE BEEN CAUSED BY ICE STORMS, HEAVY SNOWFALL AND HIGH WINDS.

- 4.) Do you think that local public education and awareness programs are effective at informing the public on what they should do to be prepared for and reduce their personal risk to natural disasters, so as not to increase the need for fire departments during hazard events?

YES ☒ NO ☐

**Comments:**

THE CATASAUQUA FIRE DEPT. CONDUCTS ANNUAL FIRE PREVENTION ACTIVITIES IN OUR SCHOOLS. IN ADDITION SCHOOLS AND OTHER ORGANIZATION REQUESTS ARE ACCOMMODATED WHEN POSSIBLE. IN ADDITION IN COOPERATION WITH OUR EMERGENCY MANAGEMENT AGENCY A PREPAREDNESS FAIR IS HELD EVERY FEW YEARS. THESE EVENTS HAVE BEEN WELL ATTENDED BUT HAVE NOT BEEN MORE FREQUENT DUE TO COST AND AVAILABILITY OF MANPOWER. ALTHOUGH NOT ABLE TO GAUGE THEIR IMPACTS THESE PAST EVENTS HAVE BEEN WELL RECEIVED AND WELL ATTENDED. THE PREPAREDNESS FAIR HAS BEEN USED AS A BENCHMARK IN OUR AREA BY LARGER MUNICIPALITIES. IN ADDITION, THROUGH OUR EMA WE HAVE INCREASED THE USE OF THEIR WEBSITE, AND SOCIAL MEDIA INCLUDING FACEBOOK, TWITTER, TUMBLR AND NIXE.

- 5.) Do you think that announcements of road closures and pending road closures are sufficiently accurate and available to support fire department functions during natural hazard events?

YES ☒ NO ☐

**Comments:**

I BELIEVE WE HAVE GOTTEN BETTER WITH ROAD CLOSURES. AGAIN WE HAVE NO REAL WAY TO ASSESS THE IMPACT OF OUR EFFORTS. THROUGH OUR SOCIAL MEDIA EFFORTS IN THE CATASAUQUA POLICE, FIRE AND EMA WE HAVE BEGUN USING OUR SOCIAL MEDIA TO MAKE THESE ANNOUNCEMENTS. IN FACT DURING THE RECENT PINE ST. BRIDGE CLOSURE OUR SOCIAL MEDIA HITS ROSE BY A COUPLE OF HUNDRED IN ONE DAY.

- 6.) Do you think that the public is aware of, understands, and takes advantage of emergency warning and notification systems and services (reverse 911, audible alerts, cell and text services)?

YES ☐ NO ☒

**Comments:**

I DON'T BELIEVE THE PUBLIC HAS GOTTEN TO WHERE WE NEED THEM IN THIS EFFORT. WE EMPLOY A SIREN SYSTEM, SOCIAL MEDIA, MIXED MESSAGING AND A REVERSE 911 THROUGH THE BOROUGH WATER DEPT. ALTHOUGH WE CAN REACH A COUPLE OF HUNDRED PEOPLE THROUGH THIS MESSAGING, I DON'T BELIEVE WE HAVE REACHED THE SEVERAL THOUSAND WE NEED. DURING A RECENT BUIL WATER EVENT WE DID GET SOME LIMITED POSITIVE FEED BACK BUT WE HAVE A WAY TO GO HERE ALSO DURING THIS EVENT WE EMPLOYED THE USE OF DOOR TO DOOR FLYERS. SINCE WE HAVE ALSO IMPLEMENTED A SYSTEM OF MANUAL DISTRIBUTION OF INFORMATION USING NEWSPAPER VENDING BOXES.

- 7.) Do you think that your agency/organization works to inform your constituents of how they can better manage their risk to natural hazards?

YES ☒ NO ☐

**Comments:**

I BELIEVE THROUGH OUR EMA WEBSITE, SOCIAL MEDIA AND OTHER MECHANISMS WE HAVE MADE HEADWAY BUT MUCH WORK NEEDS TO BE DONE TO INCREASE OUR EFFORTS TO WHERE THEY SHOULD BE. LIKE THE PREPAREDNESS PLAN OUR EFFORTS ARE LIMITED BY COST AND AVAILABLE MANPOWER AND THE DEMAND ON OUR TIME BY OTHER PRESSING CONCERNS.

10.) Do you think that emergency response planning, services, and equipment are adequate to manage and respond properly to natural disasters in your community?

YES ☐ NO ☒

**Comments:**

OVER THE LAST FEW YEARS WE HAVE MADE GREAT STRIDES IN MOVING FORWARD. FURTHER ATTEMPTS TO GET TO WHERE WE NEED TO BE ARE HAMPED BY TIME AND MONEY. WE ARE IN A MUCH BETTER POSITION THAN WE WERE YEARS AGO BUT I ENVISION A BETTER SITUATION MOVING FORWARD. I BELIEVE WE CAN HANDLE REASONABLY SCALED DISASTERS INDEPENDENT OUT OUTSIDE HELP BUT LARGE SCALE DISASTERS SUCH AS TOTAL EVACUATIONS OR COMPLETE DEVIATION ARE BEYOND OUR MEANS AND WOULD TAX OUR GREATEST STRIDES WE HAVE MADE TO DATE. IN ADDITION THE FIRE DEPT. OPERATES WITH 2 FRONT LINE PIECES OF APPARATUS 35 YEARS OLD, OUTDATED STATIONS AND NO MAJOR SOURCES OF BACKUP POWER.

11.) Do you think that local government understands, supports, and possess the resources for natural hazard risk reduction efforts in the community?

YES ☒ NO ☒

**Comments:**

I BELIEVE LOCAL GOVERNMENT UNDERSTANDS HAZARD MITIGATION BUT LACKS THE MONEY TO ACCOMPLISH THESE GOALS. WE HAVE A WISH LIST IDENTIFIED BUT LACK THE FUNDS TO IMPLEMENT IT. WE HAVE HAD NO LUCK OBTAINING GRANTS TO FURTHER ACCOMPLISH OUR MISSION.



12.) Is your agency covered by a COOP / COG plan? (Continuity of Operations / Continuity of Government plans examine an agency's ability to perform minimum essential functions during any situation. COOP activities support the continuance of agency *functions*, while COG activities support the continuance of agency *governance*.)

YES ☐ NO ☒

**Comments:**

AT THIS TIME A COOP IS BEING DEVELOPED BUT NOT YET  
IMPLEMENTED.

LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: 1/24/2012

Municipality/Organization: Borough of Coplay

County: Lehigh County

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):

\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint site

Name: Sandra Gynecsek

Title/Department: Borough Secretary

Address: 98 South 4th St, Coplay, PA 18037

Telephone: 610-262-6088

Fax: 610-262-4591

E-mail: sandyg@boroughofcoplay.org

Contact #2 (optional) ☐ Check here if you want access to the project SharePoint site

Name: \_\_\_\_\_

Title/Department: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone



Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

*nothing*

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

*none*

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.

*none*



## Evaluation of Identified Hazards and Risk

Name: Sandra Gynecsek

Title: Borough Secretary

Jurisdiction: Borough of Coplay

### PART I

How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?		
Identified Hazards 2006 HMP	NC = No Change; I = Increase; D = Decrease	Additional Comments
(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)		
Natural Hazards		
Drought	NC	
Earthquake	NC	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	NC	
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	NC	
Tornado, Wind storm*	NC	
Wildfire	NC	
Winter Storm	NC	

\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.



## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |   |  |
|---|--|
| <input type="checkbox"/> Avalanche/Glacier                                | <input type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                                  | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                                 | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                                  | <input type="checkbox"/> Volcano                         |
| <input checked="" type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

#### *Human-Made*

- |   |  |
|---|--|
| <input type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident          |
| <input type="checkbox"/> Civil Disturbance              | <input type="checkbox"/> Terrorism                 |
| <input type="checkbox"/> Dam Failure                    | <input type="checkbox"/> Transportation Accidents  |
| <input type="checkbox"/> Disorientation                 | <input type="checkbox"/> Urban Fire and Explosion  |
| <input type="checkbox"/> Drowning                       | <input type="checkbox"/> Utility Interruption      |
| <input type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity |
| <input type="checkbox"/> Levee Failure                  |  |

### Other Comments

### Appendix 3: Capability Assessment Survey

Jurisdiction: Borough of Coplay  
 Phone: 610-262-1088

Point of Contact Name and Title: Sandra Gyesser, Borough Secretary  
 Email: sandgy@boroughofcoplay.org

**1. Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate it's estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	In Place	Status Date Adopted or Updated	Under Development	Dept./Agency Responsible	Effect on Loss Reduction:		Change Since Last Plan:		Comments
					+ Support O Neutral - Hinder		+ Positive - Negative		
EXAMPLE: Hazard Mitigation Plan	X	1/1/2006		Hazard County EMA	+		+		Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	11/14/2006		LVPC and EMA	+				
Emergency Operations Plan	X	10/11/2011		Coplay EMA	+				
Disaster Recovery Plan									
Evacuation Plan									
Continuity of Operations Plan									
NFIP									
NFIP - Community Rating System									
Floodplain Regulations (Spec. NFIP Flood Damage Prevention Ordinance)	X	10/9/2001		Coplay	O				
Floodplain Management Plan	X	10/9/2001		Coplay					



# Appendix 3: Capability Assessment Survey

Tool / Program	In Place	Status Date Adopted or Updated	Under Development	Dept./Agency Responsible	Effect on Loss Reduction:		Change Since Last Plan:		Comments
					+ Support O Neutral - Hinder		+ Positive - Negative		
Zoning Regulations	X	12/19/1969	X	Coplay	0				currently in last stages of new ordinance
Subdivision Regulations	X	4/27/1982		Coplay	0				
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	X	5/11/2010		Coplay	0				
Open Space Management Plan (or Parks/Rec or Greenways Plan)									
Stormwater Management Plan / Ordinance	X	3/6/2005		Coplay	0				
Natural Resource Protection Plan									
Capital Improvement Plan									
Economic Development Plan									
Historic Preservation Plan									
Farmland Preservation									
Building Code	X	5/11/2004		Coplay	0				
Fire Code	X	7/9/1996		Coplay	0				
Firewise									
Storm Ready									
Other									



# Appendix 3: Capability Assessment Survey

**2. Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)		✓		
Planners or engineers (with natural and/or human caused hazards knowledge)		✓		
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)	✓		Copley Borough Council	
Emergency Manager	✓		Copley Borough Council	
NFIP Floodplain Administrator		✓		
Land Surveyors		✓		
Scientists or staff familiar with the hazards of the community		✓		
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program		✓		
Grant writers or fiscal staff to handle large/complex grants		✓		
Staff with expertise or training in Benefit-Cost Analysis		✓		
Other				





**3. Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources *for hazard mitigation purposes* (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming		✓		
Community Development Block Grants (CDBG)	✓		Coplay Borough Council	
Special Purpose Taxes	✓		Coplay Borough Council	
Gas / Electric Utility Fees		✓		
Water / Sewer Fees		✓		
Stormwater Utility Fees		✓		
Development Impact Fees	✓		Coplay Borough Council	
General Obligation, Revenue, and/or Special Tax Bonds	✓		Coplay Borough Council	
Partnering Arrangements or Intergovernmental Agreements	✓		Coplay Borough Council	
Other				

**4. Community Political Capability:** Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing      3-Moderately Willing      0-Unwilling to Adopt Policies/Programs      Score: 5

# Appendix 3: Capability Assessment Survey

**5. Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability		X	
Administrative and Technical Capability		X	
Fiscal Capability		X	
Community Political Capability		X	
Community Resiliency Capability		X	

**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: 1/30/12  
Municipality/Organization: Fountain Hill Borough  
County: Lehigh

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 \_\_\_\_\_ Check here if you want access to the project SharePoint site

Name: Rick Prill  
Title/Department: Borough Administrator  
Address: 941 Long Street, Fountain Hill, PA 18015  
Telephone: 610-867-0301  
Fax: 610-867-7153  
E-mail: rprill@fhboro.org

Contact #2 (optional) \_\_\_\_\_ Check here if you want access to the project SharePoint site

Name: Jim Levernier  
Title/Department: Public Works Supervisor  
Address: 941 Long Street, Fountain Hill, PA 18015  
Telephone: 610-867-8777  
Fax: 610-867-7153  
E-mail: jlevernier@fhboro.org

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone



Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

*Flooding at Police Headquarters during tropical storm/  
hurricane events.*

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

- 1. Ongoing upgrading / rehabilitation of storm sewer system*
- 2. Proposal installation of a duplex grinder pump system  
and check valves at Police Hqts*

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.

*Rehabilitation and upgrading of sanitary and storm  
sewer lines.*

## Evaluation of Identified Hazards and Risk

Name: Rick Prill Title: Borough Administrator  
 Jurisdiction: Fountain Hill Borough

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	NC	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	I	Intensity of storm events seem to have increased
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	I	Aging sewer and storm sewer systems - infiltration of flow
Tornado, Wind storm*	NC	
Wildfire	NC	
Winter Storm	NC	

\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.

## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### ***Natural***

- |   |  |
|---|--|
| <input type="checkbox"/> Avalanche/Glacier                                | <input type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                                  | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                                 | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                                  | <input type="checkbox"/> Volcano                         |
| <input checked="" type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

#### ***Human-Made***

- |   |  |
|---|--|
| <input type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident          |
| <input type="checkbox"/> Civil Disturbance              | <input type="checkbox"/> Terrorism                 |
| <input type="checkbox"/> Dam Failure                    | <input type="checkbox"/> Transportation Accidents  |
| <input type="checkbox"/> Disorientation                 | <input type="checkbox"/> Urban Fire and Explosion  |
| <input type="checkbox"/> Drowning                       | <input type="checkbox"/> Utility Interruption      |
| <input type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity |
| <input type="checkbox"/> Levee Failure                  |  |

### Other Comments

### Appendix 3: Capability Assessment Survey

Jurisdiction: Foundation Hill Borough

Point of Contact Name and Title: Rich Prill, Borough Admin's Asst

Phone: 610-867-0301

Email: rprill@fhboro.org

- 1. Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate it's estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
EXAMPLE: Hazard Mitigation Plan	X	1/1/2006		Hazard County EMA			Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan							
Emergency Operations Plan	X	1/15/00		Emer. Mgt. Dir.	+		Currently being updated
Disaster Recovery Plan							
Evacuation Plan							
Continuity of Operations Plan							
NFIP							
NFIP - Community Rating System							
Floodplain Regulations (spec. NFIP Flood Damage Prevention Ordinance)							
Floodplain Management Plan							



Appendix 3: Capability Assessment Survey

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
Zoning Regulations	X	6/08		Borough	+	+	
Subdivision Regulations	X	1/74		"	+		Currently being updated
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	X	1/07		"	+	+	
Open Space Management Plan (or Parks/Rec or Greenways Plan)							
Stormwater Management Plan / Ordinance	X	6/08		Borough	+	+	
Natural Resource Protection Plan							
Capital Improvement Plan							
Economic Development Plan							
Historic Preservation Plan	X	6/08		Borough	0		
Farmland Preservation							
Building Code	X	7/04		Borough	+		
Fire Code	X	7/04		Borough	+		
Firewise							
Storm Ready							
Other							

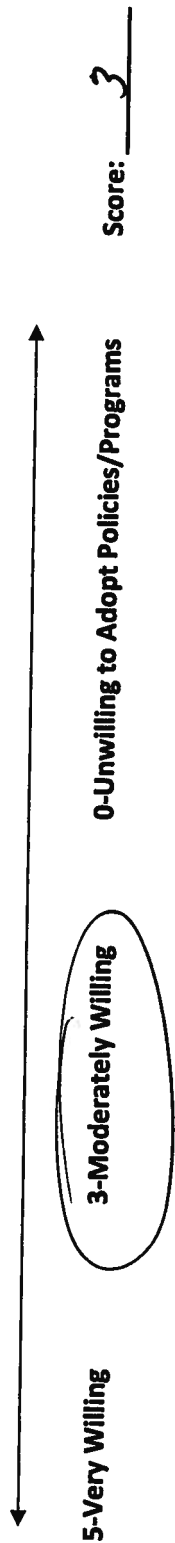
- 2. Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		Administration	3rd Party Agency
Planners or engineers (with natural and/or human caused hazards knowledge)	X		"	"
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)	X		"	"
Emergency Manager	X		Fire Dept.	Volunteer
NFIP Floodplain Administrator				
Land Surveyors	X		Administration	3rd Party Agency
Scientists or staff familiar with the hazards of the community		X		
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program	X		Administration	3rd Party Agency
Grant writers or fiscal staff to handle large/complex grants		X		
Staff with expertise or training in Benefit-Cost Analysis		X		
Other				

- 3. Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources **for hazard mitigation purposes** (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming	X		Administration	
Community Development Block Grants (CDBG)	X		"	
Special Purpose Taxes		X		
Gas / Electric Utility Fees		X		
Water / Sewer Fees		X		
Stormwater Utility Fees		X		
Development Impact Fees		X		
General Obligation, Revenue, and/or Special Tax Bonds	X		"	
Partnering Arrangements or Intergovernmental Agreements	X		"	
Other				

4. **Community Political Capability:** Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.



- 5. Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability		X	
Administrative and Technical Capability		X	
Fiscal Capability		X	
Community Political Capability		X	
Community Resiliency Capability		X	

LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date:

1-24-12

Municipality/Organization:

HANOVER Township, Lehigh County

County:

Lehigh

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):

\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1

☒

Check here if you want access to the project SharePoint site

Name:

Robin Yoder

Title/Department:

EM Director

Address:

2202 Grove Rd Allentown Pa 18109

Telephone:

610-264-1069 or 610-554-3301 cell

Fax:

610-264-2773

E-mail:

Contact #2 (optional)

☒

Check here if you want access to the project SharePoint site

Name:

Vicky Roth or Sandra Pudliner

Title/Department:

Township Clerk - Manager

Address:

2202 Grove Rd Allentown Pa 18109

Telephone:

610-264-1069 x 112

Fax:

610-264-2773

E-mail:

vroth@hanover.org -  
spudliner@hanover.org

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail

☒

Regular Mail

☐ Telephone



Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

~~Willowbrook Rd - Flooding~~  
Weaversville Rd - Flooding - State Rd  
Airport Rd @ City Line Rd - State Rd.

Sinkhole - Chestnut Grove Townhouses (Inna Dr, Suzanne Way) -

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

Drainage improvements along Airport Rd @ Lloyd St., Middle Lloyd St. & Irving St between Rt. 22 & Lloyd St. - completed.

Also, helped homeowners in Chestnut Grove deal with extensive damage from water line break & resulting sinkhole in order to save 8-10 townhouses.

(3 affected to begin with)  
Installed new equip in pump stations & water meter station (raised to alleviate flooding hazard)

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.



## Evaluation of Identified Hazards and Risk

Name: Vicky Roth

Title: Twp. Clerk

Jurisdiction: Harver Twp.

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	<del>NC</del> D	RAINS of 2011-12 changed water table
Earthquake	NC	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	NC	
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
<b>Subsidence, Sinkhole</b>	I	water line break - extensive damage
Tornado, Wind storm*	NC	
Wildfire	NC	
Winter Storm	D - (2011)	

\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.



## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### **Natural**

- |  |  |
|--|--|
| <input type="checkbox"/> Avalanche/Glacier                     | <input type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                       | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                      | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                       | <input type="checkbox"/> Volcano                         |
| <input type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

#### **Human-Made**

- |   |  |
|---|--|
| <input type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident  |
| <input type="checkbox"/> Civil Disturbance              | <input type="checkbox"/> Terrorism   |
| <input type="checkbox"/> Dam Failure                    | <input type="checkbox"/> Transportation Accidents                                |
| <input type="checkbox"/> Disorientation                 | <input type="checkbox"/> Urban Fire and Explosion                                |
| <input type="checkbox"/> Drowning                       | <input checked="" type="checkbox"/> Utility Interruption <i>Storm - Oct 2011</i> |
| <input type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity                               |
| <input type="checkbox"/> Levee Failure                  |  |

### Other Comments

### Appendix 3: Capability Assessment Survey

Jurisdiction: Haver Township, L.C.  
 Phone: 610-264-1069

Point of Contact Name and Title: Robert Yeager, Wickry Roth  
 Email: wroth@haverlec.org

**1. Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate if its estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction:	Change Since Last Plan:	Comments
	In Place	Date Adopted or Updated	Under Development		+ Support 0 Neutral - Hinder	+ Positive - Negative	
EXAMPLE: Hazard Mitigation Plan	X	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy, completed one action.
Hazard Mitigation Plan							
Emergency Operations Plan	X			EMA			
Disaster Recovery Plan				EMA			
Evacuation Plan	+			EMA			
Continuity of Operations Plan	X						
NFIP	X			EMA			
NFIP – Community Rating System							
Floodplain Regulations (spec. NFIP Flood Damage Prevention Ordinance)	X			EMA			
Floodplain Management Plan	X						



# Appendix 3: Capability Assessment Survey

Tool / Program	Status		Under Development	Dept./Agency Responsible	Effect on Loss Reduction:		Change Since Last Plan:	Comments
	In Place	Date Adopted or Updated			+ Support 0 Neutral - Hinder	+ Positive - Negative		
Zoning Regulations	+	7/6/19		2nd of 3rd				
Subdivision Regulations	+	6/15/19		Eng.				
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	+	9/98		Legislative				
Open Space Management Plan (or Parks/Rec or Greenways Plan)	+							
Stormwater Management Plan / Ordinance	+			Eng.				
Natural Resource Protection Plan				Eng.				
Capital Improvement Plan	+	Annually		Admin/leg.		+		
Economic Development Plan								
Historic Preservation Plan								
Farmland Preservation								
Building Code	+	2008 updated 3 yrs						3rd party BCO
Fire Code	+							
Firewise								
Storm Ready				SM.				
Other								

**2. Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		Pharos Comm. Twp Eng.	
Planners or engineers (with natural and/or human caused hazards knowledge)	+		Twp. Eng. ICC - V & official Twp Eng.	
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)	X		First Dep Twp Eng.	
Emergency Manager	X		Twp Eng.	
NFIP Floodplain Administrator	X		Twp Eng.	
Land Surveyors	X		Twp Eng. Mant, Eng, BCO	
Scientists or staff familiar with the hazards of the community	X			
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program	X		Eng.	
Grant writers or fiscal staff to handle large/complex grants	X		Adm.	
Staff with expertise or training in Benefit-Cost Analysis	X		Adm.	
Other				

**3. Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources **for hazard mitigation purposes** (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming	<input checked="" type="checkbox"/>		Legislative / Admin.	
Community Development Block Grants (CDBG)	<input checked="" type="checkbox"/>		Admin.	Applied for - (none at present time)
Special Purpose Taxes		<input checked="" type="checkbox"/>		
Gas / Electric Utility Fees		<input checked="" type="checkbox"/>		
Water / Sewer Fees		<input checked="" type="checkbox"/>		
Stormwater Utility Fees	<input checked="" type="checkbox"/>		Admin.	
Development Impact Fees		<input checked="" type="checkbox"/>		
General Obligation, Revenue, and/or Special Tax Bonds	<input checked="" type="checkbox"/>		Legislative / Admin.	
Partnering Arrangements or Intergovernmental Agreements				
Other				






\* Understood, all planning or expenditure of funds must be approved by legislative portion of mun. Gov't.



(including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing	3-Moderately Willing	0-Unwilling to Adopt Policies/Programs	Score: _____
		unable to address any hazards on state roads.	5*

**5. Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			
Administrative and Technical Capability			
Fiscal Capability			
Community Political Capability			
Community Resiliency Capability			



# COUNTY OF LEHIGH

## Emergency Services

Thomas H. Nervine  
Director

Laurie R. Bailey  
9-1-1 Coordinator

January 3, 2012

Dear Borough/Township Manager:

Lehigh County will be holding another session of the Lehigh Valley Hazard Mitigation Plan Update project initiation meeting on Tuesday, January 24<sup>th</sup>, 2012 from 10 am – 12 noon. The session will be held at the Lehigh Carbon Community College, 4525 Education Park Drive, Schnecksville in the Alumni Center Room 107/108. Lehigh and Northampton Counties are currently in the update cycle of our federal hazard mitigation plan. The plan provides the region with a snapshot of the various hazards throughout the area, including your municipality. **For those communities that wish to participate in the project and maintain their eligibility for mitigation grant funding, it is mandatory that your municipality provide representation at the session, if no one attended the November 29, 2011 sessions.**

The session will provide participants with a brief history of the program and the update process. In addition, the presentation will provide information to each municipality on how to ensure your jurisdiction is represented in the larger regional plan. It is important to note that this plan will provide a path for us as a region to secure additional funding to mitigate the threats of disasters. With funding harder to come by, and disasters seemingly occurring more frequently, the program provides municipalities with the opportunity to develop solutions and receive post disaster funding to mitigate hazards.

Enclosed are three municipal survey worksheets that will be further explained at the meeting, however we encourage you to work on these prior to the meeting. Please note that effective local hazard mitigation requires input and effort by a broad range of representatives including municipal managers and other elected officials, planning, engineering, code enforcement, public works, police and fire. **We strongly encourage your municipality to complete these survey worksheet forms, attend meetings and participate in the plan update project.**

I look forward to seeing you at the session, and encourage you to bring any questions or concerns about the process to the meeting. Please RSVP to Tanya Hook at [tanyahook@lehighcounty.org](mailto:tanyahook@lehighcounty.org) or 610-782-4600 by January 19, 2012.

Sincerely,

A handwritten signature in black ink, reading "Thomas H. Nervine". The signature is stylized with a large, sweeping "T" and "N".

Thomas H. Nervine



LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: 11/29/11  
Municipality/Organization: Lower Macungie Township  
County: Lehigh

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint site

Name: Ben Galiardo  
Title/Department: Code Enforcement / Planning  
Address: 3400 Brookside Rd., Macungie, PA 18062  
Telephone: 610-966-4343  
Fax: \_\_\_\_\_  
E-mail: bgaliardo@lowermac.com

Contact #2 (optional) ☒ Check here if you want access to the project SharePoint site

Name: Sara Pandl  
Title/Department: Director of Planning / Planning  
Address: see above  
Telephone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-mail: spandl@lowermac.com

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone



Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

Flooding along Little Lehigh Creek  
sink holes  
trees in creek  
gas lines - Buckeye gas tanks  
utility lines  
railroad crossings  
radon

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

acquisition of properties  
protect 500/100 yr. floodplain through ordinances  
purchase generators for municipal buildings to address power outages.

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.

continued acquisition of floodplain properties  
Establish riparian buffers.



## Evaluation of Identified Hazards and Risk

Name: BEN GALIARDI

Title: CODE EXTRACT

Jurisdiction: Lehigh MacCubie Twp

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  NC = No Change; I = Increase; D = Decrease  (Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)	Additional Comments
<b>Natural Hazards</b>		
Drought	N/C	
Earthquake	N/C	
Extreme Temperature*		
Flood, Flash Flood, Ice Jam	I	MORE FLOODING HAS OCCURRED SINCE LAST MITIGATION UPDATE 05-06
Hailstorm*	I	INCREASE IN HAILSTORMS SINCE 06
Landslide*	N/C	
Lightning Strike*	N/C	
Radon Exposure*	N/C	
Subsidence, Sinkhole	I	INCREASE SINCE 06
Tornado, Wind storm*	N/C	
Wildfire	N/C	
Winter Storm	I	INCREASE SINCE 06

\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.

## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |   |  |
|---|--|
| <input type="checkbox"/> Avalanche/Glacier                                | <input type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                                  | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                                 | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                                  | <input type="checkbox"/> Volcano                         |
| <input checked="" type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

#### *Human-Made*

- |   |  |
|---|--|
| <input type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident                    |
| <input type="checkbox"/> Civil Disturbance              | <input type="checkbox"/> Terrorism                           |
| <input type="checkbox"/> Dam Failure                    | <input checked="" type="checkbox"/> Transportation Accidents |
| <input type="checkbox"/> Disorientation                 | <input type="checkbox"/> Urban Fire and Explosion            |
| <input type="checkbox"/> Drowning                       | <input checked="" type="checkbox"/> Utility Interruption     |
| <input type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity           |
| <input type="checkbox"/> Levee Failure                  |  |

### Other Comments

# Appendix 3: Capability Assessment Survey

Jurisdiction: Lehigh Valley Twp  
 Phone: 610.966.4343 Ext-115

Point of Contact Name and Title: Paul Grubbs Code Enforcement  
 Email: BGA14200@lehighvalley.net

1. **Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate it's estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status In Place	Date Adopted or Updated	Under Develop- ment	Dept./Agency Responsible	Effect on Loss Reduction: + Support 0 Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
EXAMPLE: Hazard Mitigation Plan	X	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	7/06	Yes	LEHIGH COUNTY LOCAL MITIGATION TWP	+	+	
Emergency Operations Plan	X	11/10	Yes		+	+	
Disaster Recovery Plan							INCLINING 12 1301
Evacuation Plan							INCLINING 12 1301
Continuity of Operations Plan							
NFIP	X	7/06		LEHIGH COUNTY	+	+	
NFIP – Community Rating System							NO
Floodplain Regulations (spec. NFIP Flood Damage Prevention Ordinance)	X	6/05		LEHIGH	+		
Floodplain Management Plan	X	6/05		LEHIGH	+		

Tool / Program	In Place	Status		Dept./Agency Responsible	Effect on Loss Reduction:		Change Since Last Plan:	Comments
		Date Adopted or Updated	Under Development		+ Support 0 Neutral - Hinder	+ Positive - Negative		
Zoning Regulations	X	1/11		Planning	+	+		
Subdivision Regulations	X	1988	X	Zoning	+	+		
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	X	2011	X	Zoning	+	+		
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X	2010	<sup>ON</sup> Going	Zoning	+	+		
Stormwater Management Plan / Ordinance	X	6/08		Zoning	+	+		
Natural Resource Protection Plan								
Capital Improvement Plan	X	Yearly		Twp MGR	+			
Economic Development Plan								
Historic Preservation Plan	X			Zoning	+	+		
Farmland Preservation	X	2010		Zoning	+	+		
Building Code	X	2009	X	FCO, Twp	+	+		
Fire Code	X	2009	X	FCO, Twp	+	+		
Firewise								
Storm Ready	X	2011		NWS	+	+		ON GOING
Other								

2. **Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		Dept of Planning & Comm. Development	
Planners or engineers (with natural and/or human caused hazards knowledge)	X		"	
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)	X		OUTSIDE AGENCY TRUCKING DEPT.	
Emergency Manager	X		EMA	
NFIP Floodplain Administrator		X		
Land Surveyors	X		OUTSIDE AGENCY	
Scientists or staff familiar with the hazards of the community	X		CODE ENFORCEMENT	
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program	X		PLANNING	
Grant writers or fiscal staff to handle large/complex grants	X		PLANNING	
Staff with expertise or training in Benefit-Cost Analysis		X		
Other				

3. **Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources *for hazard mitigation purposes* (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming	X		Twp MGR	
Community Development Block Grants (CDBG)				
Special Purpose Taxes	X		LOCAL MACHINE TWP	LOCAL SHARE TAX
Gas / Electric Utility Fees		X		
Water / Sewer Fees	X		LOCAL MACHINE TWP LEHIGH VALLEY AUTHORITY	
Stormwater Utility Fees		X		
Development Impact Fees	X		PLANNING DEPT LOCAL MACHINE TWP	
General Obligation, Revenue, and/or Special Tax Bonds	X		LOCAL MACHINE	
Partnering Arrangements or Intergovernmental Agreements	X		LEHIGH COUNTY	
Other				



5-Very Willing

## 0-Unwilling to Adopt Policies/Programs

Score: 9

**5. Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			X
Administrative and Technical Capability			X
Fiscal Capability		X	
Community Political Capability		X	
Community Resiliency Capability		X	

### Mitigation Action Plan Review Worksheet for Lower Macungie Township

Existing Mitigation Action		Status					Review Comments
Description	Location	No Progress / Unknown	In Progress / Not Yet Complete	Continuous	Completed	Discontinued	
** Flood control - residences impacted by flooding	7295 Woodbine Ln.		✓	✓			STILL HAS WATER RAISED HIS FLOOD IN BASEMENT SIX INCHES AFTER THE STATION
** Flood control	8410 Mertztown Rd.					✓	DOES NOT HAVE FLOOD INSURANCE UNABLE TO MAKE CONTRACT WITH HARBORWORK
** Flood control - residences impacted by flooding	1739 Beech Ln.					✓	AS OF 3/6/12 HOME IS UNOCCUPIED FORECLOSURE.
** Flood control - residences impacted by flooding	2175 Brookside Rd.		✓	✓			CONTINUOUS FLOODING DUE TO TUBES DAMAGING THE STREAM DOWN STREAM
** Flood control - residences impacted by flooding	7637 Catalpa Dr.		✓	✓			MINOR FLOODING IN BASEMENT SUMP PUMP HANDLING
** Flood control - residences impacted by flooding	2771 Farr Rd.		✓	✓			HAS A VERY LARGE SUMP PUMP IN BASEMENT STILL DOES GET WATER - BUT PUMP IS HANDLING
** Flood control - residences impacted by flooding	5090 Lower Macungie Rd.	✓					UNABLE TO MAKE CONTRACT WITH HARBORWORK
** Flood control - low bridge on Weilers Rd. impacts homes	8312 Mertztown Rd.			✓			CONTINUOUS BRIDGE IS TOO LOW DEBRIS STAYS UP UNDER BRIDGE CAUSING PROPERTY TO FLOOD
** Flood control - low bridge on Weilers Rd. impacts homes	8328 Mertztown Rd.		✓	✓			BASEMENT CONSTANTLY FLOODS HARBORWORK HAS NO FLOOD INSURANCE HOME SITS ON CRACK

### Mitigation Action Plan Review Worksheet for Lower Macungie Township

Existing Mitigation Action		Status					Review Comments
Description	Location	No Progress / Unknown	In Progress / Not Yet Complete	Continuous	Completed	Discontinued	
** Flood control - low bridge on Weilers Rd. impacts homes	9404 Mertztown Rd.		✓	✓			BASEMENT FLOODS HOUSE SITS RIGHT ON CREEK.
** Flood control - residences impacted by flooding	2022 Mill Creek Rd.		✓	✓			STILL HAS ISSUES HAS FLOOD INSURANCE WANTS TO RAISE THE PROPERTY 1. BACK
** Flood control - residences impacted by flooding	3705 Orchid Pk.		✓	✓			HOME SITS ON CREEK CONTINUES FLOODING
** Flood control - residences impacted by flooding	6851 Spring Creek Rd.		✓	✓			BASEMENT STILL FLOODS HAS FLOOD INSURANCE & GENERATOR HAS FLOOD INSURANCE.
** Flood control - residences impacted by flooding	6899 Spring Creek Rd.		✓	✓			HAS THREE SUMP PUMPS - STILL GETS WATER IN BASEMENT SUMP PUMPS CONTINUE FLOODING
** Flood control - residences impacted by flooding	6931 Spring Creek Rd.		✓	✓			WATER CONTINUOUSLY FILLS BASEMENT FOUNDATION IS CRACKING FEMA SAYS 100 FEET NEEDS TO BE COMPLETED
** Flood control - residences impacted by flooding	7289 Spring Creek Rd.		✓	✓			AS OF 3-7-12 WAITING FOR PERMITS TO APPROVE GRANT FOR BUY-OUT.
** Flood control - residences impacted by flooding	7400 Spring Creek Rd.		✓	✓			HOUSE SITS ON CREEK CONSTANT FLOODING NUMEROUS PUMPS WATER INTO FIRST FLOOR
** Flood control - residences impacted by flooding	2102 Willow Ln.		✓	✓			LIES ON CREEK WATER IN BASEMENT HAS PUMPS TO PUMP-OUT

Mitigation Action Plan Review Worksheet for Lower Macungie Township

Existing Mitigation Action		Status					Review Comments
Description	Location	No Progress / Unknown	In Progress / Not Yet Complete	Continuous	Completed	Discontinued	
** Flood control - residences impacted by flooding	7270 Woodbine Ln.		✓	✓			As of 3.7.12 waiting for FEMA to DENY GRANT FOR POSSIBLE BUY OUT
** House below street level, home floods	4140 Maulfair Dr.					✓	FILE CLOSED
** Sump pump failure	1898 Brookhaven Dr.					✓	FILE CLOSED
** Basement flooding	8090 Heritage Dr.					✓	LAST FLOODING WAS 2007 NOTHING SINCE
** Basement flooding	8098 Heritage Dr.					✓	NEW OWNERS SINCE 2006 NO FLOODING ISSUES
** Basement flooding- sanitary sewer system problems	1430 Mashie Dr.					✓	SEWAGE BACK ISSUE RESOLVED
** Basement flooding	1431 Mashie Dr.					✓	FILE CLOSED
** Residences impacted by flooding	2170 Riverbend Rd.					✓	FLOODING HAS CEASED

## Mitigation Project Capture Sheet

<b>Contact Information</b> Name: Benjamin Galiardo Title: Deputy E.M.A Director Department/Agency: Lower Macungie Twp Telephone: 610-966-4343 Ext 115	
<b>Project Location:</b> 7261 Woodbine Lane Macungie Pa 18062	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced):  Home is on the opposite side of the street Spring Creek Road This road floods out continuously causing the road to be closed and water extending on to this property getting in to the basement and up to and in to the living room and kitchen Last storm Hurricane Irene had extensive damage. Resident has flood insurance and has submitted numerous claims Resident has applied for Hazard Mitigation Grant 2011 awaiting word. This structure along with two others should be considered for buyouts 7289 Spring Creek and 7270 Woodbine Lane.	
<b>Lead Agency</b> Lower Macungie E.M.A	<b>Support Agency</b> Lower Macungie Fire Dept
<b>Project Cost:</b> HIGH	<b>Funding Source</b> (if known): 75% Federal 22% state 3% homeowner
<b>Timeline:</b> On going	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information</b> Name: Benjamin Galiardo Title: Deputy E.M.A Director Department/Agency: Lower Macungie Twp Telephone: 610-966-4343 Ext 115	
<b>Project Location:</b> 7295 Woodbine Lane Macungie Pa 18062	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced): Still has flooding issues, Has raised his basement floor four(4) inches Has generators for sump pump but when power goes out he is helpless.	
<b>Lead Agency:</b> Lower Macungie Twp E.M.A	<b>Support Agencies:</b> Lower Macungie Fire Dept
<b>Project Cost:</b> Low	<b>Funding Source</b> (if known):
<b>Timeline:</b> Short	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

**Timeline:**

Short = 1 to 5 years.    Long Term = 5 years or greater.    OG = On-going program.    DOF = Depending on funding.



## Mitigation Project Capture Sheet

### Contact Information

Name: Benjamin Galiardo  
 Title: Deputy E.M.A Director  
 Department/Agency: Lower Macungie Twp  
 Telephone: 610-966-4343 Ext 115

### Project Location:

8410 Mertztown Road Alburtis Pa 18011

**Project Description** (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced):

Has asked to be taken off the list. At this point in time does not have or plan to get flood insurance even though he is in the 100 year floodplain.

### Lead Agency:

Lower Macungie Twp E.M.A

### Support Agencies:

Alburtis Fire Dept

### Project Cost:

n/a

### Funding Source (if known):

### Timeline:

n/a

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information</b> Name: Benjamin Galiardo Title: Deputy E.M.A Director Department/Agency: Lower Macungie Twp Telephone: 610-966-4343 Ext 115	
<b>Project Location:</b> 1739 Beech Lane Macungie Pa 18062	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced): House is in foreclosure has been empty the last two years FILE CLOSED	
<b>Lead Agency:</b>	<b>Support Agencies:</b>
<b>Project Cost:</b>	<b>Funding Source</b> (if known):
<b>Timeline:</b>	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information</b> Name: Benjamin Galiardo Title: Deputy E.M.A Director Department/Agency: Lower Macungie Twp Telephone: 610-966-4343 Ext 115	
<b>Project Location:</b> 2175 NORTH Brookside Road Macungie Pa 18062	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced): Homeowner continues to get water in his basement. Lives along side a creek that continues to dam up due to large trees falling in to the creek. The Township has gone in and removed the trees but do to D.E.P. restrictions the Twp is hampered by there mandates, also some of these trees are on private property and the Twp cannot enter the properties without home owners permission.	
<b>Lead Agency:</b> Lower Macungie E.M.A	<b>Support Agencies:</b> Lower Macungie Twp road dept
<b>Project Cost:</b> Low	<b>Funding Source</b> (if known): Line item budget
<b>Timeline:</b> On going	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

### Contact Information

Name: Benjamin Galiardo  
 Title: Deputy E.M.A Director  
 Department/Agency: Lower Macungie Twp  
 Telephone: 610-966-4343 Ext 115

### Project Location:

7637 Catalpa Drive Macungie Pa 18062

**Project Description** (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced):

This homeowner has minor flooding in his basement and is controlling it with generators and sump pump He has mitigated the problem by putting a buffer to the rear of his property.

### Lead Agency:

Lower Macungie E.M.A

### Support Agencies:

None

### Project Cost:

Low

### Funding Source (if known):

### Timeline:

Short

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

### Contact Information

Name: Benjamin Galiardo  
 Title: Deputy E.M.A Director  
 Department/Agency: Lower Macungie Twp  
 Telephone: 610-966-4343 Ext 115

### Project Location:

2771 Farr Road Emmaus Pa 18049

**Project Description** (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced):

Home owner lives along the creek still has flooding issues. Has generators and sump pumps to handle the event.

### Lead Agency

Lower Macungie E.M.A

### Support Agency

### Project Cost:

Low

### Funding Source (if known):

### Timeline:

Short

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information</b> Name: Benjamin Galiardo Title: Deputy E.M.A Director Department/Agency: Lower Macungie Twp Telephone: 610-966-4343 Ext 115	
<b>Project Location:</b> 5090 Lower Macungie Road Macungie Pa 18062	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced): UNABLE TO MAKE CONTACT WITH HOMEOWNER	
<b>Lead Agency</b>  Lower Macungie E.M.A	<b>Support Agency</b>
<b>Project Cost:</b>	<b>Funding Source</b> (if known):
<b>Timeline:</b>	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information</b> Name: Benjamin Galiardo Title: Deputy E.M.A Director Department/Agency: Lower Macungie Twp Telephone: 610-966-4343 Ext 115	
<b>Project Location:</b> 8312 Mertztown Road Alburtis Pa 18011	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced): Bridge on Weilers Road is to low to the road debris comes down from upstream gets caught under the bridge and causes flooding on to above address. Restricted by D.E.P. to remove debris	
<b>Lead Agency</b>  Lower Macungie E.M.A	<b>Support Agency</b> Lower Macungie Twp and Penn- Dot
<b>Project Cost:</b> Medium	<b>Funding Source</b> (if known): Grant Money
<b>Timeline:</b> On going	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

### Contact Information

Name: Benjamin Galiardo  
 Title: Deputy E.M.A Director  
 Department/Agency: Lower Macungie Twp  
 Telephone: 610-966-4343 Ext 115

### Project Location:

8328 Mertztown Road Alburtis Pa 18011

**Project Description** (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced):

Still has flooding issues. Home sits on the creek. Homeowner does NOT have flood insurance Has generator and sump pump

### Lead Agency

Lower Macungie E.M.A

Support Agency  
 Alburtis Fire Dept

### Project Cost:

Low

### Funding Source (if known):

### Timeline:

On going

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.



## Mitigation Project Capture Sheet

### Contact Information

Name: Benjamin Galiardo  
 Title: Deputy E.M.A Director  
 Department/Agency: Lower Macungie Twp  
 Telephone: 610-966-4343 Ext 115

### Project Location:

9404 Mertztown Road Alburtis Pa 18011

**Project Description** (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced):

Bridge on Weilers Road is to low to the road debris comes down from upstream gets caught under the bridge and causes flooding on to above address. Restricted by D.E.P. to remove debris

### Lead Agency

Lower Macungie E.M.A

### Support Agency

Lower Macungie Twp and Penn- Dot

### Project Cost:

Medium

### Funding Source (if known):

Grant Money

### Timeline:

On going

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information</b> Name: Benjamin Galiardo Title: Deputy E.M.A Director Department/Agency: Lower Macungie Twp Telephone: 610-966-4343 Ext 115	
<b>Project Location:</b> 2022 Mill Creek Road Macungie Pa 18062	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced): Homeowner still gets serious flooding lives along the creek. Would like to solve the problem by raising and regarding his property to the rear of his home	
<b>Lead Agency</b>  Lower Macungie E.M.A	<b>Support Agency</b>
<b>Project Cost:</b> Low	<b>Funding Source</b> (if known): Possibly home owners expense
<b>Timeline:</b> On going	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

### Contact Information

Name: Benjamin Galiardo  
 Title: Deputy E.M.A Director  
 Department/Agency: Lower Macungie Twp  
 Telephone: 610-966-4343 Ext 115

### Project Location:

3705 Orchid Place Emmaus Pa 18049

**Project Description** (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced):

Home sits on the creek continuous flooding has generators and sump pumps to help mitigate the problem.

### Lead Agency

Lower Macungie E.M.A

### Support Agency

### Project Cost:

Low

### Funding Source (if known):

### Timeline:

On going

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information</b> Name: Benjamin Galiardo Title: Deputy E.M.A Director Department/Agency: Lower Macungie Twp Telephone: 610-966-4343 Ext 115	
<b>Project Location:</b> 6851 Spring Creek Road Macungie Pa 18062	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced): House sits about 150 feet from the creek. Spring Creek Road is known for flooding over the last 35 or so years. Heavy rains and a high water table contribute to the problem. Home owner does have flood insurance and basement still floods. Generator and sump pump seem to keep flooding in check	
<b>Lead Agency</b>  Lower Macungie E.M.A	<b>Support Agency</b>  Funding Source (if known):
<b>Project Cost:</b> Low	<b>Timeline:</b> On going

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information</b> Name: Benjamin Galiardo Title: Deputy E.M.A Director Department/Agency: Lower Macungie Twp Telephone: 610-966-4343 Ext 115	
<b>Project Location:</b> 6899 Spring Creek Road Macungie Pa 18062	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced): House sits about 150 feet from the creek. Spring Creek Road is known for flooding over the last 35 or so years. Heavy rains and a high water table contribute to the problem. Home owner does have flood insurance and basement still floods. Generator and sump pump seem to keep flooding in check	
<b>Lead Agency</b>  Lower Macungie E.M.A	<b>Support Agency</b>
<b>Project Cost:</b> Low	<b>Funding Source</b> (if known):
<b>Timeline:</b> On going	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

### Contact Information

Name: Benjamin Galiardo  
 Title: Deputy E.M.A Director  
 Department/Agency: Lower Macungie Twp  
 Telephone: 610-966-4343 Ext 115

### Project Location:

6931 Spring Creek Road Macungie Pa 18062

### Project Description (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced):

House sits about 150 feet from the creek. Spring Creek Road is known for flooding over the last 35 or so years. Heavy rains and a high water table contribute to the problem. Home owner does have flood insurance and basement still floods. Generator and sump pump seem to keep flooding in check Foundation is cracking Homeowner wanted the Twp to file an Cost of Compliance claim but homeowner does not meet the requirements of our flood plain ordinance

### Lead Agency

Lower Macungie E.M.A

### Support Agency

Lower Macungie Fire Dept

### Project Cost:

High

### Funding Source (if known):

Federal grant

### Timeline:

On going

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

### Contact Information

Name: Benjamin Galiardo  
 Title: Deputy E.M.A Director  
 Department/Agency: Lower Macungie Twp  
 Telephone: 610-966-4343 Ext 115

### Project Location:

7289 Spring Creek Road Macungie Pa 18062

### Project Description (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced):

House sits about 150 feet from the creek. Spring Creek Road is known for flooding over the last 35 or so years. Heavy rains and a high water table contribute to the problem. Home owner does have flood insurance and basement still floods. Generator and sump pump seem to keep flooding in check Foundation is cracking The Township has filed for a grant under the disaster declaration from Hurricane Irene Homeowner has filed claims through the flood insurance program in the past of at least 25,000 dollars not including this last event. Back in 2006 applied for H,M.G.P grant denied because the home owner did not meet the benefit cost analysis. To this day water still gets up to and in to the first floor.

### Lead Agency

Lower Macungie E.M.A

### Support Agency

Lower Macungie Fire Dept

### Project Cost:

High

### Funding Source (if known):

Federal grant 75% State 22% 3% homeowner

### Timeline:

On going

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information</b> Name: Benjamin Galiardo Title: Deputy E.M.A Director Department/Agency: Lower Macungie Twp Telephone: 610-966-4343 Ext 115	
<b>Project Location:</b> 7400 Spring Creek Road Macungie Pa 18062	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced): House sits on the same side of the street that the creek is on. Has numerous pumps and generators running in time of flooding. Homeowner does have flood insurance	
<b>Lead Agency</b>  Lower Macungie E.M.A	<b>Support Agency</b>
<b>Project Cost:</b> High	<b>Funding Source</b> (if known): Federal grant 75% State 22% 3% homeowner
<b>Timeline:</b> On going	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.



## Mitigation Project Capture Sheet

<b>Contact Information</b> Name: Benjamin Galiardo Title: Deputy E.M.A Director Department/Agency: Lower Macungie Twp Telephone: 610-966-4343 Ext 115	
<b>Project Location:</b> 2102 Willow Lane Macungie Pa 18062	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced): House sits on the same side of the street that the creek is on. Has numerous pumps and generators running in time of flooding. Homeowner does have flood insurance	
<b>Lead Agency</b>  Lower Macungie E.M.A	<b>Support Agency</b>
<b>Project Cost:</b> low	<b>Funding Source</b> (if known):
<b>Timeline:</b> On going	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information</b> Name: Benjamin Galiardo Title: Deputy E.M.A Director Department/Agency: Lower Macungie Twp Telephone: 610-966-4343 Ext 115	
<b>Project Location:</b> 7270 Woodbine Lane Macungie Pa 18062	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced): House sits on opposite side of the street from where creek is at least 150 feet away. When flooding occurs water covers Spring Creek Road making it impassable and fills the basement with water up to and in to the first floor. This flooding has been occurring for the last thirty five years or so and getting worse. H.M.G. applied for in 2006 was denied because it did not meet the B.C.A Reapplied in 2011 still an open issue. Numerous claims have been filed with the flood insurance company. Claims have been paid out. Totaling over 50,000 dollars	
<b>Lead Agency</b>  Lower Macungie E.M.A	<b>Support Agency</b> Lower Macungie Fire Dept
<b>Project Cost:</b> high	<b>Funding Source</b> (if known): 75%Federal, 22% state 3% homeowner
<b>Timeline:</b> On going	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information</b> Name: Benjamin Galiardo Title: Deputy E.M.A Director Department/Agency: Lower Macungie Twp Telephone: 610-966-4343 Ext 115	
<b>Project Location:</b> 4140 Maulfair Drive Allentown Pa 18103	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced):  Unable to make contact with homeowner FILE CLOSED	
<b>Lead Agency</b>	<b>Support Agency</b>
<b>Project Cost:</b>	<b>Funding Source</b> (if known):
<b>Timeline:</b>	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information</b> Name: Benjamin Galiardo Title: Deputy E.M.A Director Department/Agency: Lower Macungie Twp Telephone: 610-966-4343 Ext 115	
<b>Project Location:</b> 1898 Brookhaven Drive Drive Allentown Pa 18103	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced):  Unable to make contact with homeowner FILE CLOSED	
<b>Lead Agency</b>	<b>Support Agency</b>
<b>Project Cost:</b>	<b>Funding Source</b> (if known):
<b>Timeline:</b>	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information</b> Name: Benjamin Galiardo Title: Deputy E.M.A Director Department/Agency: Lower Macungie Twp Telephone: 610-966-4343 Ext 115	
<b>Project Location:</b> 8090 Heritage Drive Alburtis Pa 18011	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced):  Last flooding occurred in 2007 FILE CLOSED	
<b>Lead Agency</b>	<b>Support Agency</b>
<b>Project Cost:</b>	<b>Funding Source</b> (if known):
<b>Timeline:</b>	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information</b> Name: Benjamin Galiardo Title: Deputy E.M.A Director Department/Agency: Lower Macungie Twp Telephone: 610-966-4343 Ext 115	
<b>Project Location:</b> 8098 Heritage Drive Alburtis Pa 18011	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced):  Last flooding occurred in 2007 FILE CLOSED	
<b>Lead Agency</b>	<b>Support Agency</b>
<b>Project Cost:</b>	<b>Funding Source</b> (if known):
<b>Timeline:</b>	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information</b> Name: Benjamin Galiardo Title: Deputy E.M.A Director Department/Agency: Lower Macungie Twp Telephone: 610-966-4343 Ext 115	
<b>Project Location:</b> 1430 Mashie Drive Wescosville Pa 18106	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced):  This home had water and sewer backup problem solved FILE CLOSED	
<b>Lead Agency</b>  Lower Macungie Twp E.M.A	<b>Support Agency</b> Lower Macungie Twp road and sewer dept
<b>Project Cost:</b> low	<b>Funding Source</b> (if known): Line item
<b>Timeline:</b>	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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 reappropriation 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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information</b> Name: Benjamin Galiardo Title: Deputy E.M.A Director Department/Agency: Lower Macungie Twp Telephone: 610-966-4343 Ext 115	
<b>Project Location:</b> 1431 Mashie Drive Wescosville Pa 18106	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced):  This home had water and sewer backup problem solved FILE CLOSED	
<b>Lead Agency</b>  Lower Macungie Twp E.M.A	<b>Support Agency</b> Lower Macungie Twp road and sewer dept
<b>Project Cost:</b> low	<b>Funding Source</b> (if known): Line item
<b>Timeline:</b>	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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 reappropriation 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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.



## Mitigation Project Capture Sheet

<b>Contact Information</b> Name: Benjamin Galiardo Title: Deputy E.M.A Director Department/Agency: Lower Macungie Twp Telephone: 610-966-4343 Ext 115	
<b>Project Location:</b> 2170 Riverbend Road Allentown Pa 18103	
<b>Project Description</b> (Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced):  No more problems FILE CLOSED	
<b>Lead Agency</b>	<b>Support Agency</b>
<b>Project Cost:</b>	<b>Funding Source</b> (if known):
<b>Timeline:</b>	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = <\$10,000      Medium = \$10,000 to \$100,000      High = \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.      Long Term = 5 years or greater.      OG = On-going program.      DOF = Depending on funding.

**Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?**

- Flooding*
- Limeport Pike ponding during heavy rains, 3800 block, southbound lane
  - Limeport Pike culvert at intersection of Dillingersville Rd - Flooding
  - School House/Spring - Flooding
  - W. Mill Hill + Yeakey
  - Schultz Bridge + Buhman
  - Spinnerstown and School House
  - Spinnerstown stream crossing (btwn. Dieffenbarger + D. Schanz)
  - Limeport Pike at Fretz pond + at Rice Farm

**Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)**

- Storm drainage projects on Shupp Lane, Plover Lane  
1400 block Standard Ln. + Emil Hill + Orchard Lane

- Stormwater Ordinances
- Floodplain ord.

**Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.**

- Funds to purchase equipment
- Funds to Replace culverts

## Evaluation of Identified Hazards and Risk

Name: Ellen Koptin — Twp. mgr.  
Richard Kinsey — Public Works.  
William Roy Title Supervisor / EMC.  
 Jurisdiction: Lower Milford

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  NC = No Change; I = Increase; D = Decrease  (Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)	Additional Comments
<b>Natural Hazards</b>		
Drought	N/C.	
Earthquake	N/C	
Extreme Temperature*	N/C	
* Flood, Flash Flood, Ice Jam	Storm water I Increase 1. MAINT. ISSUES 2. LACK of improvements.	→ Significant RAIN fall - inadequate for roads
Hailstorm*	N/C	
Landslide*	N/C	
Lightning Strike*	N/C	
Radon Exposure*	N/C	
Subsidence, Sinkhole	N/C.	
Tornado, Wind storm*	N/C	
Wildfire	N/C	
Winter Storm	N/C	

\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.

## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### Natural

☐ Avalanche/Glacier

☒ Invasive Species

☐ Coastal Erosion

☐ Pandemic and Infectious Disease

☐ Dust, Sand Storm

☐ Tsunami

☐ Expansive Soils

☐ Volcano

☐ Hurricane, Tropical Storm, Nor'easter

#### Human-Made

☐ Building or Structure Collapse

☐ Nuclear Incident

☐ Civil Disturbance

☐ Terrorism

☐ Dam Failure

☒ Transportation Accidents

☐ Disorientation

☐ Urban Fire and Explosion

☐ Drowning

☒ Utility Interruption

☒ Environmental Hazards

☒ War and Criminal Activity

☐ Levee Failure

Drug Related, Burglary

#### Other Comments

- Recent Derailment on Durshams Property
- Potentially with East Penn Railines storing propane. in Rail cars (9-1)
  - Asensak Substation 230,000+ gallons transformer oil (PCBs).

### Appendix 3: Capability Assessment Survey

Jurisdiction: Lower Merion Twp Point of Contact Name and Title: Bill  
 Phone: 610 967 4949 Email:

*Ellen Rich*

- 1. Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate its estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status		Dept./Agency Responsible	Effect on Loss Reduction: + Support 0 Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated				
EXAMPLE: Hazard Mitigation Plan	X	1/1/2006	Hazard County EMA	+		Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	7-18-2006		0 Neutral	+	
Emergency Operations Plan	X	2007		0 Neutral	+	
Disaster Recovery Plan <i>See EOP</i>	✓			0	+	See EOP.
Evacuation Plan <i>See EOP</i>	✓			0	+	See EOP
Continuity of Operations Plan <i>See EOP</i>	✓			0	+	See EOP
NFIP	✓	11-2009		0	+	
NFIP - Community Rating System	✓	11 2009		0	+	
Floodplain Regulations (spec. NFIP Flood Damage Prevention Ordinance)	✓	12-13-01		0	+	
Floodplain Management Plan	✓	12 13 01		0	+	



Appendix 3: Capability Assessment Survey

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support 0 Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
Zoning Regulations	✓	7-20-2009	✓		+ enforced		ord. 114
Subdivision Regulations	✓	7-16-1997			+ enforced		ord. 76
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	✓	5-19-2005			+		Plan
Open Space Management Plan (or Parks/Rec or Greenways Plan)	✓	2008			+		Plan.
Stormwater Management Plan / Ordinance (2) Act 67		Feb 10-21-10-4 19 2007			+		ord 104 ord 119
Natural Resource Protection Plan	✓				+		See zoning.
Capital Improvement Plan							
Economic Development Plan							
Historic Preservation Plan							
Farmland Preservation	✓				+		
Building Code	✓	5-04			+		ord. 97
Fire Code					+		See Building code
Firewise	✓	6-14-2006			+		ord 110
Storm Ready	✓	1-2-2007			+		4th Winter Maint Plan
Other licensed QRS, EMS		7-2010			+		

\*



- 2. Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		Planning Com.	Planning Administrator - oversees
Planners or engineers (with natural and/or human caused hazards knowledge)	X		COWAN / Township Engineer.	Township
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)			COWAN / Township Engineers	
Emergency Manager	X		EMC.	
NFIP Floodplain Administrator			Zoning Officer	
Land Surveyors			Township Engineer.	
Scientists or staff familiar with the hazards of the community			Police, Public Works, Township Mgr.	
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program			Township Engineer.	
Grant writers or fiscal staff to handle large/complex grants			Township Manager Public Works Director Police Chief	
Staff with expertise or training in Benefit-Cost Analysis			B.O.S.	
Other ESAC Emergency			ESAC.	
SURVIVOR ADVISORY				

- 3. Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources **for hazard mitigation purposes** (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming <i>only a fund</i>		✓		<i>not eligible for community or only a fund</i>
Community Development Block Grants (CDBG)		✓		
Special Purpose Taxes	✓			<i>firedept</i>
Gas / Electric Utility Fees		✓		
<u>Water / Sewer Fees</u>	✓		<i>Township Public works.</i>	<i>Limited OS &amp; RS.</i>
Stormwater Utility Fees		✓		
Development Impact Fees		✓		
General Obligation, Revenue, and/or Special Tax Bonds		✓		
Partnering Arrangements or Intergovernmental Agreements	✓		<i>Planning Commission's Regional Plan.</i>	
Other				



- 4. Community Political Capability:** Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

←

→

**5-Very Willing**

**3-Moderately Willing**

**0-Unwilling to Adopt Policies/Programs**

Score: 5

- 5. Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			✓
Administrative and Technical Capability			✓
Fiscal Capability	✓		
Community Political Capability		✓	✓
Community Resiliency Capability	✓		

**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: 1/12/12

Municipality/Organization: Lowhill Township

County: Lehigh

**Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):**

\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

**Contact #1** \_\_\_\_\_ Check here if you want access to the project SharePoint site

Name: Frank Bartholomew

Title/Department: Emergency Management Coordinator

Address: 9721 Bartholomew Court, Breinigsville, PA 18031

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

**Contact #2 (optional)** \_\_\_\_\_ Check here if you want access to the project SharePoint site

Name: \_\_\_\_\_

Title/Department: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

**What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?**

\_\_\_\_\_ E-mail \_\_\_\_\_ Regular Mail \_\_\_\_\_ Telephone



## Evaluation of Identified Hazards and Risk

Name: Frank Bartholomew

Title: Emergency Management Coordinator

Jurisdiction: Lowhill Township

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	NC	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	NC	
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	NC	
Tornado, Wind storm*	NC	
Wildfire	NC	
Winter Storm	NC	

*\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.*

### Appendix 3: Capability Assessment Survey

Jurisdiction: Lowhill Township Point of Contact Name and Title: Frank Bartholomew  
 Phone: \_\_\_\_\_ Email: \_\_\_\_\_  
 (Emergency Management Coordinator)

**1. Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate it's estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction:	Change Since last Plan:	Comments
	In Place	Date Adopted or Updated	Under Development		+ Support 0 Neutral - Hinders	+ Positive - Negative	
<i>EXAMPLE: Hazard Mitigation Plan</i>	X	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy, completed one action.
Hazard Mitigation Plan							
Emergency Operations Plan	X	11/2003					
Disaster Recovery Plan							
Evacuation Plan							
Continuity of Operations Plan							
NFIP							
NFIP – Community Rating System							
Floodplain Regulations (spec. NFIP Flood Damage Prevention Ordinance)	X	10/7/10					
Floodplain Management Plan							



Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support 0 Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
Zoning Regulations	X	5/1/08					
Subdivision Regulations	X	10/7/98					
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	X	1/6/05					
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X	7/2/09					
Stormwater Management Plan / Ordinance	X	4/5/07					
Natural Resource Protection Plan							
Capital Improvement Plan							
Economic Development Plan							
Historic Preservation Plan							
Farmland Preservation							
Building Code	X	7/1/04					
Fire Code							
Firewise							
Storm Ready							
Other							

**2. Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.


Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)				
Planners or engineers (with natural and/or human caused hazards knowledge)	X		Keystone Consulting Engineers	
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)	X		Barry Isett & Associates	
Emergency Manager	X		Frank Bartholomew	
NFIP Floodplain Administrator	X		Reynold G. Reinert	
Land Surveyors				
Scientists or staff familiar with the hazards of the community				
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program				
Grant writers or fiscal staff to handle large/complex grants				
Staff with expertise or training in Benefit-Cost Analysis				
Other				

- 3. Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources *for hazard mitigation purposes* (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming				
Community Development Block Grants (CDBG)				
Special Purpose Taxes				
Gas / Electric Utility Fees				
Water / Sewer Fees				
Stormwater Utility Fees				
Development Impact Fees				
General Obligation, Revenue, and/or Special Tax Bonds				
Partnering Arrangements or Intergovernmental Agreements				
Other				



**4. Community Political Capability:** Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.



<b>5-Very Willing</b>	<b>3-Moderately Willing</b>	<b>0-Unwilling to Adopt Policies/Programs</b>	<b>Score: _____</b>
-----------------------	-----------------------------	---	---------------------



**5. Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			
Administrative and Technical Capability			
Fiscal Capability			
Community Political Capability			
Community Resiliency Capability			

LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: November 29, 2011

Municipality/Organization: Macungie Borough

County: Lehigh

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint site

Name: Chris L. Boehm

Title/Department: Borough Manager

Address: 21 Locust Street, Macungie, PA 18062

Telephone: 610-966-2503

Fax: 610-966-2788

E-mail: cboehm@macungie.pa.us

Contact #2 (optional) ☒ Check here if you want access to the project SharePoint site

Name: Cindy Hartzell

Title/Department: Adm. Asst.

Address: same

Telephone: same

Fax: same

E-mail: chartzell@macungie.pa.us

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone



Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

Flooding along Mountain Creek  
Secor Creek

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

none

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.

Streambank stabilization



## Evaluation of Identified Hazards and Risk

Name: Chris Boehm

Title: Borough Manager

Jurisdiction: Macungie Borough

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	NC	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	NC	
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	NC	
Tornado, Wind storm*	NC	
Wildfire	NC	
Winter Storm	NC	

*\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.*

## Appendix 3: Capability Assessment Surve

Jurisdiction: Macungie Borough

Point of Contact Name and Title: Chris Boehm, Borough Manager

Phone: 610-966-2503

Email: clboehm@macungie.pa.us

**1. Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate if it's estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
<i>EXAMPLE: Hazard Mitigation Plan</i>	X	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	1/1/2006		Lehigh County	+		No funds available to implement mitigation strategy
Emergency Operations Plan	X	2003		Macungie Borough	0	-	The Borough's plan has not been updated since 2003.
Disaster Recovery Plan							
Evacuation Plan							
Continuity of Operations Plan							
NFIP							
NFIP – Community Rating System							

Appendix 3: Capability Assessment Survey

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
Building Code	X	06/2004		Macungie Borough	0		
Fire Code							
Firewise							
Storm Ready							
Other							

- 3. Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources *for hazard mitigation purposes* (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming		X		
Community Development Block Grants (CDBG)		X		
Special Purpose Taxes		X		
Gas / Electric Utility Fees		X		
Water / Sewer Fees		X		
Stormwater Utility Fees		X		
Development Impact Fees		X		
General Obligation, Revenue, and/or Special Tax Bonds	X		Macungie Borough Council	
Partnering Arrangements or Intergovernmental Agreements	X		Macungie Borough Council	
Other				



**5. Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability	X		
Administrative and Technical Capability	X		
Fiscal Capability	X		
Community Political Capability	X		
Community Resiliency Capability	X		

LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: 11-29-11  
Municipality/Organization: North Whitehall Township  
County: Lehigh

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint site

Name: Ronald J Heintzelman  
Title/Department: Supervisor  
Address: 3256 LEVANS ROAD Coplay PA. 18037  
Telephone: 610-799-3411 Ext. 227  
Fax: 610-799-9629 OR 799-9639  
E-mail: RHeintzelman@NorthWhitehall dot org

Contact #2 (optional) ☐ Check here if you want access to the project SharePoint site

Name: Ken Nickelson  
Title/Department: \_\_\_\_\_  
Address: 3256 LEVAN ROAD Coplay PA. 18037  
Telephone: 610-799-3411  
Fax: \_\_\_\_\_  
E-mail: K.Nickelson@NorthWhitehall dot org

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone



LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: 1-24-12  
Municipality/Organization: North Whitehall Twp.  
County: Lehigh

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint site

Name: Jeff Bartlett  
Title/Department: Manager  
Address: 3256 Levans Rd. Coplay, PA 18037  
Telephone: 610 799 3411  
Fax: 610 799 9639  
E-mail: jbartlett@northwhitehall.org

Contact #2 (optional) ☒ Check here if you want access to the project SharePoint site

Name: Ken Nicholson  
Title/Department: Zoning & Code Enforcement  
Address: 3256 Levans Rd Coplay, PA 18037  
Telephone: 610 799 3411  
Fax: 610 799 9629  
E-mail: Knicholson@northwhitehall.org

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone



**Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?**

**Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)**

**Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.**



## Evaluation of Identified Hazards and Risk

Name: KEN NICHOLSON

Title: Zoning & Code Enforcement

Jurisdiction: N. Whitehall Twp.

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	NC	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	NC	
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	NC	
Tornado, Wind storm*	NC	
Wildfire	NC	
Winter Storm	NC	

*\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.*

## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### ***Natural***

- |   |   |
|---|---|
| <input type="checkbox"/> Avalanche/Glacier                                | <input type="checkbox"/> Invasive Species                           |
| <input type="checkbox"/> Coastal Erosion                                  | <input checked="" type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                                 | <input type="checkbox"/> Tsunami                                    |
| <input type="checkbox"/> Expansive Soils                                  | <input type="checkbox"/> Volcano                                    |
| <input checked="" type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |   |

#### ***Human-Made***

- |   |   |
|---|---|
| <input type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident   |
| <input type="checkbox"/> Civil Disturbance              | <input type="checkbox"/> Terrorism  |
| <input type="checkbox"/> Dam Failure                    | <input checked="" type="checkbox"/> Transportation Accidents <i>TPKE &amp; Rail</i> |
| <input type="checkbox"/> Disorientation                 | <input type="checkbox"/> Urban Fire and Explosion                                   |
| <input type="checkbox"/> Drowning                       | <input checked="" type="checkbox"/> Utility Interruption <i>power</i>               |
| <input type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity                                  |
| <input type="checkbox"/> Levee Failure                  |   |

### Other Comments

LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: JANUARY 24, 2012

Municipality/Organization: SALISBURY Township

County: LEHIGH

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):

\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint site

Name: RANDY SORIANO

Title/Department: TOWNSHIP MANAGER

Address: 2900 S. PIKE AVE ALLENTOWN PA 18103

Telephone: 610-797-4000

Fax: 610-797-5516

E-mail: RSORIANO@SALISBURYTOWNSHIPPA.ORG

Contact #2 (optional) ☒ Check here if you want access to the project SharePoint site

Name: SHEMAINE WILSON

Title/Department: ADMINISTRATIVE Asst TO MANAGER

Address: 2900 S. PIKE AVE ALLENTOWN PA 18103

Telephone: 610-797-4000

Fax: 610-797-5516

E-mail: SWILSON@SALISBURYTOWNSHIPPA.ORG

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail

☒ Regular Mail

☐ Telephone



**TANYAHOOK@LEHIGHCOUNTY.ORG LEHIGH VALLEY HAZARD MITIGATION PLAN  
UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetratech.com](mailto:jonathan.raser@tetratech.com)

Date:

2/27/2012

Municipality/Organization:

South White Hall

County:

Lehigh

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):

\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1



Check here if you want access to the project SharePoint site

Name:

Jeff Kelly

Title/Department:

EMC

Address:

4444 Walnut Ave

Telephone:

610-972-1043

Fax:

610-841-4104

E-mail:

Kellyj@Ptd.net

Contact #2 (optional)

☐ Check here if you want access to the project SharePoint site

Name:

Title/Department:

Address:

Telephone:

Fax:

E-mail:

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?





Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

Wehrs Dam AREA Park Flooding  
Boothsville Village Road - Structures Flooding  
Cedar Crest + Hamilton Sewer Flooding.

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

None.

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.

Flooding Cedar Crest + Hamilton Major Route  
to Area Train Center LUHC.

# Evaluation of Identified Hazards and Risk

Name: Jeff Kelly  
 Jurisdiction: South Whitehall

Title: EMC

## PART I

How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?

Identified Hazards	2006 HMP	NC - No Change	I - Increase	D - Decrease	Additional Comments
Drought					
Earthquake					
Extreme Temperature*					
Flood, Flash Flood, Ice Jam					
Hailstorm*					
Landslide*					
Lightning Strike*					
Radon Exposure*					
Subsidence, Sinkhole					
Tornado, Wind storm*					
Wildfire					
Winter Storm					

\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.

**PART II****Other Hazards:**

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

**Natural**

- |  |  |
|--|--|
| <input type="checkbox"/> Avalanche/Glacier                     | <input type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                       | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                      | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                       | <input type="checkbox"/> Volcano                         |
| <input type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

**Human-Made**

- |   |  |
|---|--|
| <input type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident                |
| <input type="checkbox"/> Civil Disturbance              | <input type="checkbox"/> Terrorism                       |
| <input type="checkbox"/> Dam Failure                    | <input type="checkbox"/> Transportation Accidents        |
| <input type="checkbox"/> Disorientation                 | <input type="checkbox"/> Urban Fire and Explosion        |
| <input type="checkbox"/> Drowning                       | <input checked="" type="checkbox"/> Utility Interruption |
| <input type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity       |
| <input type="checkbox"/> Levee Failure                  |  |

**Other Comments**

## Appendix 3: Capability Assessment Survey

Jurisdiction: South WhitehallPhone: 610 972-1045

Point of Contact Name and Title:

Jeff Kelly

Email:

Jeff.Kelly@ord.net

1. **Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate its estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool/Program	Adopted	Updated	Department or Agency Responsible	Effect on Hazard Loss Reduction	Change in Ability to Result in Loss Reduction	Comments
EXAMPLE: Hazard Mitigation Plan	X	1/1/2006	Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X					
Emergency Operations Plan	X	8/2011	County EMA			
Disaster Recovery Plan	X	8/2011	Swat staff			
Evacuation Plan	X	8/2011	Swat staff			
Continuity of Operations Plan	X	8/2011	Swat staff			
NFIP	X	7/2010	Swat staff			
NFIP - Community Rating System						
Floodplain Regulations (Spec. NFIP Flood Damage Prevention Ordinance)						
Floodplain Management Plan						

## Appendix 3: Capability Assessment Survey

[illegible]

## Appendix 3: Capability Assessment Survey

2. **Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		Community Development	
Planners or engineers (with natural and/or human caused hazards knowledge)		X		
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)	X		Community Development	
Emergency Manager	X		EMA	
NFIP Floodplain Administrator		X		
Land Surveyors		X		
Scientists or staff familiar with the hazards of the community	X		Community Development	
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program	X		Community Development	
Grant writers or fiscal staff to handle large/complex grants		X		
Staff with expertise or training in Benefit-Cost Analysis	X		F. Buehl	
Other				



## Appendix 3: Capability Assessment Survey

3. **Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources for *hazard mitigation purposes* (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming				
Community Development Block Grants (CDBG)		X		
Special Purpose Taxes		X		
Gas / Electric Utility Fees	✓		Finance	
Water / Sewer Fees	✓		Finance	
Stormwater Utility Fees	✓		Public work	
Development Impact Fees	✓		C.D.	
General Obligation, Revenue, and/or Special Tax Bonds	✓		Finance	
Partnering Arrangements or Intergovernmental Agreements	✓		C.D.	
Other				



## Appendix 3: Capability Assessment Survey

**4. Community Political Capability:** Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing                      3-Moderately Willing                      0-Unwilling to Adopt Policies/Programs                      Score: 5





**5. Self-Assessment of Capability:**

Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in Appendix 4.

## Appendix 3: Capability Assessment Survey

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			
Administrative and Technical Capability			
Fiscal Capability			X
Community Political Capability			X
Community Resiliency Capability			X



**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: 1-24-12

Municipality/Organization: Upper Merion Township

County: Lehigh

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint site

Name: Grant W. Grim

Title/Department: Fire Commissioner

Address: 8330 Schantz Rd., Breinigsville, PA 18031

Telephone: 610-395-4892 x27

Fax: 610-395-9355

E-mail: gggrim@uppermac.org

Contact #2 (optional) ☐ Check here if you want access to the project SharePoint site

Name: \_\_\_\_\_

Title/Department: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone



**Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?**

**Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)**

**Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.**



## Evaluation of Identified Hazards and Risk

Name: Grant Grim

Title: Fire Commish

Jurisdiction: Upper Macungie Twp.

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  NC = No Change; I = Increase; D = Decrease  (Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	I	had one in 2011 First Time
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	I	more frequent do to weather issues
Hailstorm*	I	Larger Hails storm than in the past year
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	I	more frequent sink hole repairs by public works
Tornado, Wind storm*	I	increased wind storms due to weather
Wildfire	NC	
Winter Storm	I	Transportation issues from road closures on Interstate roads

\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.

## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |   |   |
|---|---|
| <input type="checkbox"/> Avalanche/Glacier                                | <input type="checkbox"/> Invasive Species                           |
| <input type="checkbox"/> Coastal Erosion                                  | <input checked="" type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                                 | <input type="checkbox"/> Tsunami                                    |
| <input type="checkbox"/> Expansive Soils                                  | <input type="checkbox"/> Volcano                                    |
| <input checked="" type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |   |

#### *Human-Made*

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident                    |
| <input type="checkbox"/> Civil Disturbance                         | <input type="checkbox"/> Terrorism                           |
| <input type="checkbox"/> Dam Failure                               | <input checked="" type="checkbox"/> Transportation Accidents |
| <input type="checkbox"/> Disorientation                            | <input type="checkbox"/> Urban Fire and Explosion            |
| <input type="checkbox"/> Drowning                                  | <input checked="" type="checkbox"/> Utility Interruption     |
| <input type="checkbox"/> Environmental Hazards                     | <input type="checkbox"/> War and Criminal Activity           |
| <input type="checkbox"/> Levee Failure                             |  |

### Other Comments

### Appendix 3: Capability Assessment Survey

Jurisdiction: Upper Merionie Twp Point of Contact Name and Title: Grant Grim Fire Commissioner  
 Phone: 610-395-4892 Email: GGRIM@uppermac.org

**1. Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate it's estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status		Dept./Agency Responsible	Effect on Loss Reduction: + Support 0 Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated				
EXAMPLE: Hazard Mitigation Plan	X	1/1/2006	Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	7/2006	Lehigh County	+	+	
Emergency Operations Plan	X	2/2/2012	Upper Merionie Township	+	+	
Disaster Recovery Plan						
Evacuation Plan	X	12/2011	Lehigh County	+	+	
Continuity of Operations Plan	X	2/2/2012	Upper Merionie Township	+	+	part of E.O.P
NFIP						
NFIP – Community Rating System						
Floodplain Regulations (spec. NFIP Flood Damage Prevention Ordinance)						
Floodplain Management Plan	X	2/6/2002	Upper Merionie Township	+	+	

Tool / Program	Status		Dept./Agency Responsible	Effect on Loss Reduction: + Support 0 Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated				
Zoning Regulations	X	2001	UMT Community Development	+	+	
Subdivision Regulations	X	2001	UMT Community Development	+	+	
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	X	2007	UMT Community Development	+	+	
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X	2001	UMT Community Development	+	+	
Stormwater Management Plan / Ordinance	X	2001 2011	UMT Community Development	+	+	
Natural Resource Protection Plan						
Capital Improvement Plan						
Economic Development Plan						
Historic Preservation Plan						
Farmland Preservation	X	2001 2011	UMT Community Development	+	+	
Building Code	X	12/31/2010	Upper Merion Township	+	+	
Fire Code	X	12/31/2010	Upper Merion Township	+	+	
Firewise						
Storm Ready	X	1/2012	Lehigh County	+	+	
Other						

- 2. Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		upper macungie Township	
Planners or engineers (with natural and/or human caused hazards knowledge)	X		Community Development Kerstone consulting Engineers	
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)	X		Kerstone consulting Engineers	
Emergency Manager	X		Grant W. Grim	
NFIP Floodplain Administrator		X		
Land Surveyors	X		Kerstone consulting Engineers	
Scientists or staff familiar with the hazards of the community	X		upper macungie Township Fire Inspectors	
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program	X		Kerstone consulting Engineers upper macungie Township staff	
Grant writers or fiscal staff to handle large/complex grants	X		Kerstone consulting Engineers	
Staff with expertise or training in Benefit-Cost Analysis	X		upper macungie Township Financial manager	
Other				



3. **Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources **for hazard mitigation purposes** (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming		X		
Community Development Block Grants (CDBG)		X		
Special Purpose Taxes	X		Upper Macungie Township	Local Services Tax
Gas / Electric Utility Fees		X		
Water / Sewer Fees	X		Upper Macungie Twp Sewer Authority	
Stormwater Utility Fees		X		
Development Impact Fees	X		Upper Macungie Township	
General Obligation, Revenue, and/or Special Tax Bonds	X		Upper Macungie Township	
Partnering Arrangements or Intergovernmental Agreements	X		Penn Dot	Snow plowing agreement
Other				

4. **Community Political Capability:** Political capability In this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

←	→
5-Very Willing	0-Unwilling to Adopt Policies/Programs
	3-Moderately Willing
	Score: <u>4</u>

5. **Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			X
Administrative and Technical Capability			X
Fiscal Capability		X	
Community Political Capability		X	
Community Resiliency Capability			X

**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: JAN. 3, 2012

Municipality/Organization: UPPER MILFORD TOWNSHIP

County: LEHIGH

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ALREADY HAVE Check here if you want access to the project SharePoint site

Name: DANIEL A. DE LONG

Title/Department: TOWNSHIP MANAGER

Address: 5671 PO BOX 210 OLD ZIONSVILLE PA. 18068

Telephone: OFFICE 610-966-3223 CELL 484-357-6140

Fax: 610-966-5184

E-mail: ddeelong@uppermifflord.net

Contact #2 (optional) ALREADY HAVE Check here if you want access to the project SharePoint site

Name: BRIAN MILLER

Title/Department: PLANNING CHAIR & SEO

Address: 5671 CHESTNUT ST. OLD ZIONSVILLE, PA 18068

Telephone: 610-966-3223

Fax: 610-966-5184

E-mail: bmiller@uppermifflord.net

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone



**Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?**

1. MINDR DAMAGE TO STRUCTURES DUE TO FLOODING
2. LOSS DUE TO LENGTHY POWER OUTAGES DUE TO THE RURAL AND EXTENSIVLY WOODED AREAS OF THE TOWNSHIP

**Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)**

1. REPLACED UNDERSIZED CULVERT @ SWAMP RD & INDIAN CREEK RD.

**Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.**

1. BETTER ELECTRIC UTILITY PRIMARY & SECONDARY LINE CLEARING.



LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date:

11/29/11

Municipality/Organization:

U. Milford Twp., Citizens' Fire Co.

County:

Lehigh County, PA

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):

\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1

☒ Check here if you want access to the project SharePoint site

Name:

George DeVault

Title/Department:

Asst. Chief, Supervisor - Elect

Address:

3502 Main Rd. E. Emmons, PA 18049

Telephone:

610-928-7541

Fax:

E-mail:

gdevault@gmail.com

Contact #2 (optional)

☐ Check here if you want access to the project SharePoint site

Name:

Title/Department:

Address:

Telephone:

Fax:

E-mail:

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail

☐ Regular Mail

☐ Telephone



## Evaluation of Identified Hazards and Risk

Name: DANIEL DELONG

Title: TOWNSHIP MANAGER

Jurisdiction: UPPER MILFORD TOWNSHIP

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	I	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	NC	
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	NC	
Tornado, Wind storm*	NC	
Wildfire	NC	
Winter Storm	I	<b>DUE TO 10/30/11 SNOW &amp; ICE STORM</b>

*\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.*

## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |   |   |
|---|---|
| <input type="checkbox"/> Avalanche/Glacier                                | <input checked="" type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                                  | <input checked="" type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                                 | <input type="checkbox"/> Tsunami                                    |
| <input type="checkbox"/> Expansive Soils                                  | <input type="checkbox"/> Volcano                                    |
| <input checked="" type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |   |

#### *Human-Made*

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Building or Structure Collapse | <input checked="" type="checkbox"/> Nuclear Incident          |
| <input checked="" type="checkbox"/> Civil Disturbance              | <input checked="" type="checkbox"/> Terrorism                 |
| <input type="checkbox"/> Dam Failure                               | <input checked="" type="checkbox"/> Transportation Accidents  |
| <input checked="" type="checkbox"/> Disorientation                 | <input checked="" type="checkbox"/> Urban Fire and Explosion  |
| <input checked="" type="checkbox"/> Drowning                       | <input checked="" type="checkbox"/> Utility Interruption      |
| <input checked="" type="checkbox"/> Environmental Hazards          | <input checked="" type="checkbox"/> War and Criminal Activity |
| <input type="checkbox"/> Levee Failure                             |   |

### Other Comments



### Appendix 3: Capability Assessment Survey

Jurisdiction: UPPER MILFORD TOWNSHIP

Point of Contact Name and Title: DANIEL DELONG, TOWNSHIP MANAGER

Phone: 610-966-3223

Email: ddejong@uppermilford.net

- 1. Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate it's estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
<i>EXAMPLE: Hazard Mitigation Plan</i>	X	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	1/1/06	X	COUNTY	+	+	
Emergency Operations Plan	X	5/27/05	X	UMT BOS	+	+	
Disaster Recovery Plan							
Evacuation Plan							
Continuity of Operations Plan							
NFIP	X	2004					ADOPTION INCLUDES MOST RECENT APPROVED UPDATES
NFIP – Community Rating System	X	2004					
Floodplain Regulations (spec. NFIP Flood Damage Prevention Ordinance)	X	3/18/10		UMT ZONING	+	+	

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
Floodplain Management Plan	X	3/18/10		UMT ZONING	+	+	
Zoning Regulations	X	3/18/10		ZONING / PLANNING	+	+	
Subdivision Regulations	X	3/18/10		ZONING / PLANNING	+	+	
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	X	5/19/05		ZONING / PLANNING	+	+	
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X	2008		ZONING / PLANNING	+	+	
Stormwater Management Plan / Ordinance	X	12/29/10		ZONING	+	+	
Natural Resource Protection Plan	X	3/18/10		ZONING	+	+	
Capital Improvement Plan							
Economic Development Plan							
Historic Preservation Plan							
Farmland Preservation	X	3/18/10		ZONING	O	+	
Building Code	X	7/1/04		BUILDING	+	+	
Fire Code	X	7/1/04		BUILDING	+	+	
Firewise							
Storm Ready							

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
Other							

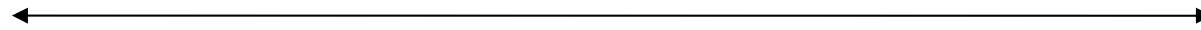
- 2. Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an “X” in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		PLANNING	
Planners or engineers (with natural and/or human caused hazards knowledge)	X		TOWNSHIP ENGINEER CONSULTANT	
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)	X		BUILDING DEPART 3 <sup>RD</sup> PARTY CONSULTANTS	
Emergency Manager	X		EMC	
NFIP Floodplain Administrator	X		ZONING	
Land Surveyors	X		TOWNSHIP ENGINEER CONSULTANTS	
Scientists or staff familiar with the hazards of the community	X		PUBLIC WORKS DEPARTMENT	
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA’s HAZUS program	X		PLANNING / ZONING	
Grant writers or fiscal staff to handle large/complex grants	X		GENERAL ADMIN W/ CONSULTANT IF NEEDED	
Staff with expertise or training in Benefit-Cost Analysis				
Other				

- 3. Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources *for hazard mitigation purposes* (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming	X		GENERAL ADMINISTRATION	
Community Development Block Grants (CDBG)	X		GENERAL ADMINISTRATION	
Special Purpose Taxes	X		GENERAL ADMINISTRATION	
Gas / Electric Utility Fees		X	N/A	
Water / Sewer Fees		X	LCA	
Stormwater Utility Fees		X	N/A	
Development Impact Fees	X		GENERAL ADMINISTRATION	
General Obligation, Revenue, and/or Special Tax Bonds	X		GENERAL ADMINISTRATION	
Partnering Arrangements or Intergovernmental Agreements	X		GENERAL ADMINISTRATION & PUBLIC WORKS DEPARTMENT	
Other				

- 4. Community Political Capability:** Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.



5-Very Willing

3-Moderately Willing

0-Unwilling to Adopt Policies/Programs

Score: 3

- 5. Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability		X	
Administrative and Technical Capability		X	
Fiscal Capability		X	
Community Political Capability		X	
Community Resiliency Capability			X

LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: DECEMBER 7, 2011

Municipality/Organization: UPPER SAUCON TOWNSHIP

County: LEHIGH

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 X Check here if you want access to the project SharePoint site

Name: Thomas F. Beil

Title/Department: Township Manager

Address: 5500 Camp Meeting Road, Center Valley, PA 18034

Telephone: 610-282-1171, ext. 3

Fax: 610-282-3557

E-mail: tbeil@uppersaucon.org

Contact #2 (optional) X Check here if you want access to the project SharePoint site

Name: Charles E. Castetter, Jr.

Title/Department: Fire Chief

Address: 4445 W. Hopewell Road, Center Valley, PA 18034

Telephone: 610-791-0266

Fax: 610-791-2727

E-mail: usfd2701@rcn.com

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

X

E-mail

                     Regular Mail

                     Telephone





Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

See attached list of problem areas where flooding occurs.

**PROPERTY DAMAGE DUE TO FLOODING DURING HURRICANE IRENE:**

- \*Intersection of Rt. 309 and Center Valley Parkway/Saucon Valley Road - 4 vehicles rendered inoperative due to rising flood water.
- \*4664 Camp Meeting Rd. - home sustained extensive flood damage.
- \*Intersection of Rt. 309 and Center Valley Parkway/Saucon Valley Road - flood water caused extensive damage to electrical components in traffic signal controller box.
- \*Intersection of Rt. 309 and W. Hopewell Rd. - vehicle rendered inoperative due to rising flood water.
- \*6301 N. Main St. - business sustained extensive flood damage.

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

Elevated traffic signal controller box at intersection of Rt. 309 and Center Valley Parkway/Saucon Valley Road.

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.

\*Widen Camp Meeting Rd. bridge over Saucon Creek so more water can flow under bridge instead of backing up on to property at 4664 Camp Meeting Rd.

\*Drainage improvements/detention pond to alleviate flooding at intersection of Rt. 309 and Center Valley Parkway/Saucon Valley Road.



# MUNICIPAL HAZARD MITIGATION FLOODING PROJECTS

## LEHIGH COUNTY

PRIORITY	CATEGORY	DESCRIPTION	LOCATION
MEDIUM (M)	ACQUISITION/ELEVATION FLOODPROOFING		
M	Upper Saucon Twp.	Property flooding and street flooding	4569 E. Valley Rd.
M	Upper Saucon Twp.	Property flooding	4537 E. Valley Rd.
M	Upper Saucon Twp.	Property flooding	4664 Camp Meeting Rd.
M	Upper Saucon Twp.	Street flooding	Lanark Rd. at intersection with Hopewell Rd.
M	Upper Saucon Twp.	Street flooding	Lanark Rd. at intersection with Chestnut Dr.
M	Upper Saucon Twp.	Street flooding	Lanark Rd. at intersection with Saucon Valley Rd.
M	Upper Saucon Twp.	Property flooding and street flooding	Landis Mill Rd. at bridge over unnamed tributary to Saucon Creek
M	Upper Saucon Twp.	Street flooding	Rt. 309 and Saucon Valley Rd.
M	Upper Saucon Twp.	Street flooding	Rt. 309 at Hopewell Rd.
M	Upper Saucon Twp.	Street flooding	N. Main St. near intersection with Mill Rd.
M	Upper Saucon Twp.	Street flooding	N. Main St. near intersection with Liberty Rd.
M	Upper Saucon Twp.	Businesses impacted by flooding	6301 N. Main St.

# MUNICIPAL HAZARD MITIGATION FLOODING PROJECTS

## LEHIGH COUNTY

PRIORITY	CATEGORY	DESCRIPTION	LOCATION
LOW (L)	STORMWATER PLACEMENT IMPROVEMENTS		
L	Upper Saucon Twp.	Street flooding	Jacoby Rd. near intersection with Suter Rd.
L	Upper Saucon Twp.	Street flooding	Section of Old Bethlehem Pike between Landis Mill Rd. and Spring Valley Rd.
L	Upper Saucon Twp.	Street flooding	Fawn Lane
L	Upper Saucon Twp.	Property flooding and street flooding	2402 Spring Valley Rd.
L	Upper Saucon Twp.	Street flooding	Fairmont St. near entrance to Living Memorial Park

## Evaluation of Identified Hazards and Risk

Name: Thomas F. Beil

Title: Township Manager

Jurisdiction: Upper Saucon Township

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  NC = No Change; I = Increase; D = Decrease  (Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)	Additional Comments
<b>Natural Hazards</b>		
Drought	D	
Earthquake	NC	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	I	
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	NC	
Tornado, Wind storm*	NC	
Wildfire	NC	
Winter Storm	NC	

\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.



## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |   |   |
|---|---|
| <input type="checkbox"/> Avalanche/Glacier                                | <input type="checkbox"/> Invasive Species                           |
| <input type="checkbox"/> Coastal Erosion                                  | <input checked="" type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                                 | <input type="checkbox"/> Tsunami                                    |
| <input type="checkbox"/> Expansive Soils                                  | <input type="checkbox"/> Volcano                                    |
| <input checked="" type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |   |

#### *Human-Made*

- |   |  |
|---|--|
| <input type="checkbox"/> Building or Structure Collapse | <input checked="" type="checkbox"/> Nuclear Incident         |
| <input type="checkbox"/> Civil Disturbance              | <input type="checkbox"/> Terrorism                           |
| <input type="checkbox"/> Dam Failure                    | <input checked="" type="checkbox"/> Transportation Accidents |
| <input type="checkbox"/> Disorientation                 | <input type="checkbox"/> Urban Fire and Explosion            |
| <input type="checkbox"/> Drowning                       | <input checked="" type="checkbox"/> Utility Interruption     |
| <input type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity           |
| <input type="checkbox"/> Levee Failure                  |  |

#### Other Comments

**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetratech.com](mailto:jonathan.raser@tetratech.com)

Date: 1/24/12

Municipality/Organization: Washington Township

County: Lehigh

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):

\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint site

Name: George T. Kern

Title/Department: Emergency Coordinator

Address: 2812 Cemetery St. Slatington Pa 18080

Telephone: 610-767-9275

Fax: \_\_\_\_\_

E-mail: G.T.K.COINS@AOL.COM

Contact #2 (optional) ☒ Check here if you want access to the project SharePoint site

Name: Gerald Phillips

Title/Department: Supervisor

Address: 7951 Center St. Emerald Pa 15060

Telephone: 610-767-8108

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail

☒ Regular Mail

☐ Telephone



**Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?**

**Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)**

**Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.**



## Evaluation of Identified Hazards and Risk

Name: Gerald Phillips

Title: Supervisor

Jurisdiction: Washington Twp Lehigh County

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  NC = No Change; I = Increase; D = Decrease  (Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	NC	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam		
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	NC	
Tornado, Wind storm*		
Wildfire	NC	
Winter Storm		

\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.





## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### ***Natural***

- |  |  |
|--|--|
| <input type="checkbox"/> Avalanche/Glacier                     | <input type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                       | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                      | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                       | <input type="checkbox"/> Volcano                         |
| <input type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

#### ***Human-Made***

- |   |  |
|---|--|
| <input type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident          |
| <input type="checkbox"/> Civil Disturbance              | <input type="checkbox"/> Terrorism                 |
| <input type="checkbox"/> Dam Failure                    | <input type="checkbox"/> Transportation Accidents  |
| <input type="checkbox"/> Disorientation                 | <input type="checkbox"/> Urban Fire and Explosion  |
| <input type="checkbox"/> Drowning                       | <input type="checkbox"/> Utility Interruption      |
| <input type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity |
| <input type="checkbox"/> Levee Failure                  |  |

### Other Comments

### Appendix 3: Capability Assessment Survey

Jurisdiction: W' Ashington Twp.

Point of Contact Name and Title: George Keim - EMC

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

- 1. Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate it's estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
EXAMPLE: Hazard Mitigation Plan	X	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	10/10/06					
Emergency Operations Plan	X	10/9/07					
Disaster Recovery Plan							
Evacuation Plan							
Continuity of Operations Plan							
NFIP							
NFIP – Community Rating System							
Floodplain Regulations (spec. NFIP Flood Damage Prevention Ordinance)							
Floodplain Management Plan							

# Appendix 3: Capability Assessment Survey

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
Zoning Regulations	X						
Subdivision Regulations	X						
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	X						
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X						
Stormwater Management Plan / Ordinance	X						
Natural Resource Protection Plan							
Capital Improvement Plan							
Economic Development Plan							
Historic Preservation Plan		X					
Farmland Preservation	X						
Building Code	X						
Fire Code							
Firewise							
Storm Ready							
Other							

- 2. Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X			
Planners or engineers (with natural and/or human caused hazards knowledge)	X			
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)	X			
Emergency Manager	X			
NFIP Floodplain Administrator	X			
Land Surveyors	X			
Scientists or staff familiar with the hazards of the community				
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program				
Grant writers or fiscal staff to handle large/complex grants				
Staff with expertise or training in Benefit-Cost Analysis				
Other				

3. **Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources **for hazard mitigation purposes** (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming				
Community Development Block Grants (CDBG)	X			
Special Purpose Taxes				
Gas / Electric Utility Fees				
Water / Sewer Fees	X			
Stormwater Utility Fees				
Development Impact Fees	X			
General Obligation, Revenue, and/or Special Tax Bonds	X			
Partnering Arrangements or Intergovernmental Agreements	X			
Other				

4. **Community Political Capability:** Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.



5-Very Willing                      3-Moderately Willing                      0-Unwilling to Adopt Policies/Programs                      Score: 3

- 5. Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability		X	
Administrative and Technical Capability		X	
Fiscal Capability		X	
Community Political Capability		X	
Community Resiliency Capability		X	

**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetratech.com](mailto:jonathan.raser@tetratech.com)

Date: 1/24/12

Municipality/Organization: Weisenberg Township

County: Lehigh

**Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):**

\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

**Contact #1** \_\_\_\_\_ **Check here if you want access to the project SharePoint site**

Name: Frank Bartholomew

Title/Department: Emergency Management Coordinator

Address: 9721 Bartholomew Court, Breinigsville, PA 18031

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

**Contact #2 (optional)** \_\_\_\_\_ **Check here if you want access to the project SharePoint site**

Name: \_\_\_\_\_

Title/Department: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

**What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?**

\_\_\_\_\_ **E-mail**                      \_\_\_\_\_ **Regular Mail**                      \_\_\_\_\_ **Telephone**





## Evaluation of Identified Hazards and Risk

Name: Frank Bartholomew

Title: Emergency Management Coordinator

Jurisdiction: Weisenberg Township

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	NC	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	NC	
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole		
Tornado, Wind storm*		
Wildfire	D	organized new fire company
Winter Storm	D	hired part-time help and purchased bigger & better equipment

*\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.*

## Appendix 3: Capability Assessment Survey

Jurisdiction: Wei senberg Township Point of Contact Name and Title: Frank Bartholomew  
 Phone: \_\_\_\_\_ Email: \_\_\_\_\_  
 (Emergency Management Coordinator)

**1. Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate it's estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction:		Change Since Last Plan:	Comments
	In place	Date Adopted or Updated	Under Development		+ Support 0 Neutral - Hinder	+ Positive - Negative		
EXAMPLE: Hazard Mitigation Plan	X	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.	
Hazard Mitigation Plan								
Emergency Operations Plan		11/2002						
Disaster Recovery Plan								
Evacuation Plan								
Continuity of Operations Plan								
NFIP								
NFIP – Community Rating System								
Floodplain Regulations (Spec. NFIP Flood Damage Prevention Ordinance)	X	12/3/01						
Floodplain Management Plan	X	2/1972						



# Appendix 3: Capability Assessment Survey

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction:		Change Since Last Plan:	Comments
	In Place	Date Adopted or Updated	Under Development		+ Support O Neutral - Hinder	+ Positive - Negative		
Zoning Regulations	X	6/13/11						
Subdivision Regulations	X	7/11/05						
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	X	5/9/05						
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X	6/8/09						
Stormwater Management Plan / Ordinance	X X X X	1/5/89; 4/1/93 5/9/11 6/13/11	4/2/01; 3/14/05; 5/14/07					Little Lehigh Watershed Jordan Creek Watershed Saucon Creek Watershed Maiden Creek Watershed
Natural Resource Protection Plan								
Capital Improvement Plan								
Economic Development Plan								
Historic Preservation Plan								
Farmland Preservation								
Building Code	X	5/10/04						
Fire Code								
Firewise								
Storm Ready								
Other (conservation easement)	X	5/14/07						




**2. Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)				
Planners or engineers (with natural and/or human caused hazards knowledge)	X		Keystone Consulting Engineers	
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)	X		Barry Isett & Associates	
Emergency Manager	X		Frank Bartholomew	
NFIP Floodplain Administrator				
Land Surveyors				
Scientists or staff familiar with the hazards of the community				
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program				
Grant writers or fiscal staff to handle large/complex grants				
Staff with expertise or training in Benefit-Cost Analysis				
Other				

**3. Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources *for hazard mitigation purposes* (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming				
Community Development Block Grants (CDBG)				
Special Purpose Taxes				
Gas / Electric Utility Fees				
Water / Sewer Fees				
Stormwater Utility Fees				
Development Impact Fees				
General Obligation, Revenue, and/or Special Tax Bonds				
Partnering Arrangements or Intergovernmental Agreements				
Other				

**4. Community Political Capability:** Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.



<b>5-Very Willing</b>	<b>3-Moderately Willing</b>	<b>0-Unwilling to Adopt Policies/Programs</b>	<b>Score: _____</b>
-----------------------	-----------------------------	---	---------------------

**5. Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			
Administrative and Technical Capability			
Fiscal Capability			
Community Political Capability			
Community Resiliency Capability			

LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: 11-29-11

Municipality/Organization: WHITEHALL TOWNSHIP

County: LEHIGH COUNTY

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):

\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint site

Name: JOHN RACKUS

Title/Department: PUBLIC WORKS DIRECTOR

Address: 3219 MACARTHUR ROAD WHITEHALL, PA 18052-2900

Telephone: 610-437-5524

Fax: 610-434-3116

E-mail: JRACKUS@whitehalltownship.com

Contact #2 (optional) ☒ Check here if you want access to the project SharePoint site

Name: EDWARD HOZZA JR.

Title/Department: MAYOR

Address: SAME AS ABOVE

Telephone: " " "

Fax: " " "

E-mail: ehozza@whitehalltownship.com

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone





Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

BUSINESS LOSS DUE TO FLOODED ROAD SR 1010 DUE TO  
COPLAY CREEK. ACCESS TO HOME & BUSINESS RESTRICTED.  
RESCUES IN THE PAST. LIMITS FIRE RESPONSE TO  
HOMES ON WATER ST.

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

NONE - NO MONEY

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.

STUDY EDENHARDT & WATER ST CULVERT FOR IMPROVEMENT



## Whitehall Township

### Hazards Comments

#### Page 1

**Earthquake** – tremor from Virginia first time this has happened no impact except rush of phone calls and what where we doing while working in front of homes that made their house vibrate.

**Flood, flash flood** – older developments storm water basins where designed on a 10 yr event. Overtopped flooding streets. Manhole covers dislodged at multiple locations.

SR 1014 Eberhardt Road – ADT 12,000 floods due to Coplay Creek. Would like to study for improvement of a culvert at Water St where Coplay enters the Lehigh River. Possibly flow could be increased 100% cost effectively. In addition EV access is restricted because a bridge to the North limits access to homes on Water St.

#### **Subsidence**

One home affected by sinkhole. Resident has about \$80,000.00 into it expected to go to \$200,000.00. Occured about the time of Irene.

#### **Tornado / windstorm**

Power outages as never before with every wind event. In the 90's PPL quit tree maintenance along their lines. Now it all coming to bare. They have restarted the program but not known to what extent. Lucky we had generators for our EOC and Public Works. Traffic lights on 145 intersections where out for 24 hrs. Police Station has limited power generator coverage. We have funded back ups on some traffic lights and required new development to do the same. Money lacks for the others. ADT on 145 37,000.

#### **Winter Storm**

2010 brought multiple back to back storms. Salt providers could not keep up with demand. We could increase storage capacity but are strapped for money like everyone else.

#### Page 2

#### **Human- Made**

##### Transportation Accidents

LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetratech.com](mailto:jonathan.raser@tetratech.com)

Date:

11/29/2011

Municipality/Organization:

Whitball Twp EMA

County:

Lehigh

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):

\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1



Check here if you want access to the project SharePoint site

Name:

Curt Wallbert

Title/Department:

Emergency Management Coordinator

Address:

Telephone:

484-764-7164

Fax:

E-mail:

cdwallbert@oplnet.com

Contact #2 (optional)



Check here if you want access to the project SharePoint site

Name:

Joshua Smith

Title/Department:

Deputy Emergency Mng Coordinator

Address:

Telephone:

484-866-3536

Fax:

E-mail:

JS71219@yahoo.com

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail

☐ Regular Mail

☒ Telephone



Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

-Tarktown due to flooding

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

Road reconstruction and bridge expansion in Tarktown

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.

Traffic / Evacuation / Emergency Routes  
Flooding

Critical facilities are the Mall +  
Nursing facilities

Development of EMA Agency + EOC



## Evaluation of Identified Hazards and Risk

Name: JOHN RACKUS

Title: PUBLIC WORKS DIRECTOR

Jurisdiction: WHITEHALL TWP - LEHIGH COUNTY

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  NC = No Change; I = Increase; D = Decrease  (Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	I	TREMOR FROM VIRGINIA 121 TIME LEVEL NO IMPACT
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	I	HURRICANE IRVINE TROP STORM LEE OVERTOOK STORM SYSTEMS
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	I	HOME EXAMINED BY SINKHOLE RESIST HAS *BO* COULD NOT IT ALREADY
Tornado, Wind storm*	I	PUNGO OUTAGES EXTREME DURING IRVINE & LEE
Wildfire	NC	
Winter Storm	I	DURING 2010 BACK TO BACK STORMS DEPLETED SALT - SUPPLIES WOULD NOT KEEP UP.

\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.



## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |  |  |
|--|--|
| <input type="checkbox"/> Avalanche/Glacier                     | <input type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                       | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                      | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                       | <input type="checkbox"/> Volcano                         |
| <input type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

#### *Human-Made*

- |   |  |
|---|--|
| <input type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident                    |
| <input type="checkbox"/> Civil Disturbance              | <input type="checkbox"/> Terrorism                           |
| <input type="checkbox"/> Dam Failure                    | <input checked="" type="checkbox"/> Transportation Accidents |
| <input type="checkbox"/> Disorientation                 | <input type="checkbox"/> Urban Fire and Explosion            |
| <input type="checkbox"/> Drowning                       | <input type="checkbox"/> Utility Interruption                |
| <input type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity           |
| <input type="checkbox"/> Levee Failure                  |  |

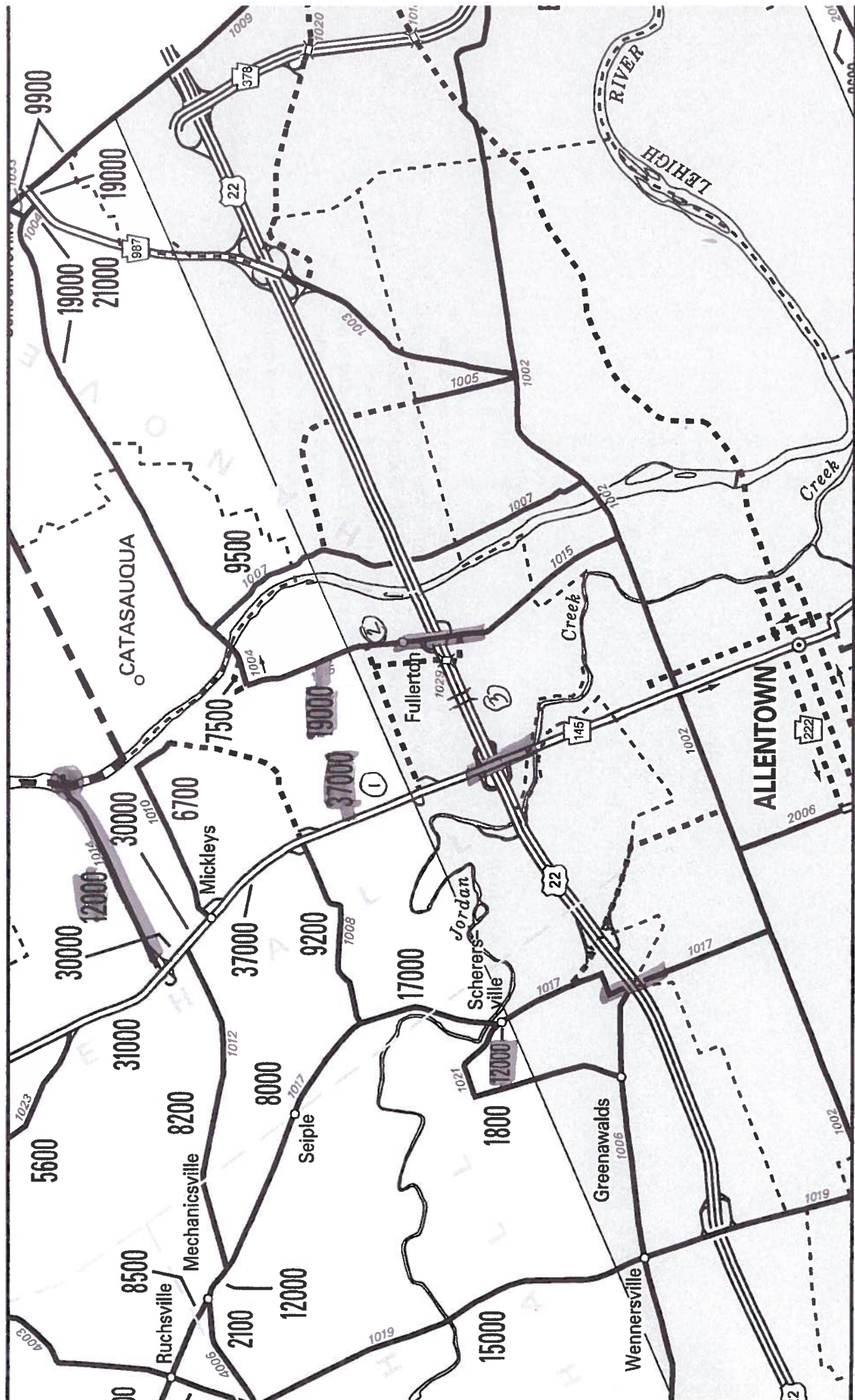
### Other Comments

WE HAD TWO POWER POLES DOWN ON SR1015. IT TOOK 24 HRS TO GET THE ROAD OPEN. TRAFFIC WAS GRIDLOCKED - EV'S WERE DELAYED TO THE SOUTH END OF THE TWP. PA DOT IS PROPOSING REMOVAL OF THE 5th ST BRIDGE WHICH DROPS OUR N-S ROUTES TO 3. ALTERNATIVE TWP OWNS THE BRIDGE

### **Transportation Accidents**

S.R.1015 Fullerton Ave. - 19,000ADT - two power poles where down as a result of an accident. It took 24hrs to reopen the street. During that time traffic was gridlocked. Ev's where delayed to the southern end of the Township. My point of this is that with the Rt 22 widening Pa. Dot has proposed removing the 5<sup>th</sup> St. bridge which is adjacent and parallels SR 1015. During times of accidents on Rt 22 or when 145 is backed up due to an accident or other occurrences on 1015, 5<sup>th</sup> street becomes an alternate route used to enter directly to Allentown. 5<sup>th</sup> St. is a Federal Aid road and the Township assumed maintenance of it except for the bridge over Rt22. I feel that there is more detriment that will be experienced than Pa.Dot's traffic study has revealed. Removing 5<sup>th</sup> street as a North South outlet for 1015 is going backwards. It certainly requires more study because it will be forever. When the proposed Ice Arena goes into Allentown traffic will be increasing on all our 3 North South Streets.







Mitigation Action Plan Review Worksheet for Whitehall Township

Existing Mitigation Action		Status					Review Comments
Description	Location	No Progress / Unknown	In Progress / Not Yet Complete	Continuous	Completed	Discontinued	
Bridge replacement	SR 1014 at Coplay Creek		x				Penn Dot bridge to be under construction by year end 2012
Storm drainage improvements	Overlook Basin	x					Funding not available
Improvements to existing culvert	Norfolk Southern culvert at Coplay Creek - Water St.	x					Second cell collapsed and is blocked. Bridge engineer will be evaluating.



## Mitigation Project Capture Sheet

<b>Contact Information:</b> <i>Name:</i> John F. Rackus <i>Title:</i> Public Works Director <i>Department/Agency:</i> Whitehall Township Public Works <i>Telephone:</i> 610-437-5524 x 140	
<b>Project Location:</b> Norfolk Southern Culvert over the Coplay Creek. Water Street and Eberhart Road intersections.	
<b>Project Description</b> <i>(Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced:</i> <b>Engineering and removal of flow restriction from the original 1910 design of the culvert. At present SR 1010 ADT of 15,000 closes. Water Street homes are with out Fire services during flooding do to the weight restriction and poor condition of the bridge to the north(SR 1014) that is the only other access to Water Street. 5 Businesses in the area of Eberhart Road must close during times of flooding.</b>	
<b>Lead Agency:</b> Whitehall Township	<b>Support Agencies:</b> Whitehall Public Works
<b>Project Cost:</b> Medium	<b>Funding Source;</b> <i>(if known):</i>
<b>Timeline:</b> DOF	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

## Mitigation Project Capture Sheet

**Contact Information:**

*Name:* John F. Rackus

*Title:* Public Works Director

*Department/Agency:* Whitehall Township

*Telephone:* 610-437-5524 x 140

**Project Location: Overlook Basin – Overlook Road.**

**Project Description** *(Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced:*

*The emergency spillway for this basin uses 3 Township roadways and Rt 145 to convey the stormwater to the Jordan Creek during overtop conditions. The roadways are mass transit and school bus routes coupled with high pedestrian exposure in this corridor would be eliminated. Upsize the existing outfall piping to keep flows underground to the Jordan Creek.*

**Lead Agency: Whitehall Township**

**Support Agencies:**

**Project Cost: High**

**Funding Source : none at this time**

**Timeline: DOF**

**Costs:**

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

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.

**Funding Source:**

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

## Mitigation Project Capture Sheet

<b>Contact Information:</b> <i>Name:</i> John F. Rackus <i>Title:</i> Public Works Director <i>Department/Agency:</i> Whitehall Township Public Works <i>Telephone:</i> 610-437-5524 x 140	
<b>Project Location:</b> <b>Whitehall Police Department</b> <b>3731 Lehigh Street</b> <b>Whitehall, Pa. 18052</b>	
<b>Project Description</b> <i>(Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced:</i> <b>Presently the Police Department emergency generator only provides emergency lighting during power outage. The goal would be to replace the generator upgrading to full stand alone operation of the Police Department with 24 hrs operation of 50 employees.</b>	
<b>Lead Agency:</b> Whitehall Township	<b>Support Agencies:</b> Whitehall Public Works and Police Department
<b>Project Cost:</b> High	<b>Funding Source;</b> none at this time
<b>Timeline:</b> DOF	

**Costs:**

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

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.

**Funding Source:**

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

## Mitigation Project Capture Sheet

<b>Contact Information:</b> <i>Name:</i> John F. Rackus <i>Title:</i> Public Works Director <i>Department/Agency:</i> Whitehall Township <i>Telephone:</i> 610-437-5524 x 140	
<b>Project Location:</b> <b>303 Florida Ave.</b> <b>Whitehall, Pa. 18052</b>	
<b>Project Description</b> <i>(Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced:</i> <i>Sinkhole remediation to protect infrastructure. A sinkhole has occurred involving a private home. The home is inhabitable and expenditures of \$50,000.00 has been borne by the resident and has not corrected the problem. The Township is following procedures to make sure the property is mitigated to prevent involvement of neighboring homes ,streets and infrastructure. If the resident and bank shirk their responsibility the Township will have to step in to correct the problem with no funding source.</i>	
<b>Lead Agency: Whitehall Township</b>	<b>Support Agencies:</b>
<b>Project Cost: High</b>	<b>Funding Source : none at this time</b>
<b>Timeline: DOF</b>	

**Costs:**

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

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.

**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetratech.com](mailto:jonathan.raser@tetratech.com)

Date: 11-17-11

Municipality/Organization: Allen Township

County: Northampton

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):

\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint site

Name: Ilene Eckhart

Title/Department: Twp. Manager

Address: 4714 INDIAN TRAIL RD. Northampton, PA 18067

Telephone: 610-262-7012

Fax: 610-262-7364

E-mail: manager@allentownship.org

Contact #2 (optional) ☒ Check here if you want access to the project SharePoint site

Name: Scott UhnaK

Title/Department: Director of Public Works

Address: 4714 INDIAN TRAIL RD, NORTHAMPTON, PA 18067

Telephone: 610-262-7012 / 484-239-7371

Fax: 610-262-0686

E-mail: SUhnaK@allentownship.org

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone



**Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?**

SINK HOLES DAMAGING ROADWAYS, INFRASTRUCTURE  
HEAVY RAINS CAUSING MAJOR WASHOUTS  
FLASH FLOODS

**Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)**

Drainage Improvements

**Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.**



## Evaluation of Identified Hazards and Risk

Name: Scott Unnak

Title: Director of public works

Jurisdiction: Allen Township

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	D	
Earthquake	NC	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	I	
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	I	
Radon Exposure*	NC	
Subsidence, Sinkhole	I	
Tornado, Wind storm*	NC	
Wildfire	D	
Winter Storm	I	

*\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.*



## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |   |  |
|---|--|
| <input type="checkbox"/> Avalanche/Glacier                                | <input type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                                  | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                                 | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                                  | <input type="checkbox"/> Volcano                         |
| <input checked="" type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

#### *Human-Made*

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident                    |
| <input type="checkbox"/> Civil Disturbance                         | <input checked="" type="checkbox"/> Terrorism                |
| <input type="checkbox"/> Dam Failure                               | <input checked="" type="checkbox"/> Transportation Accidents |
| <input type="checkbox"/> Disorientation                            | <input checked="" type="checkbox"/> Urban Fire and Explosion |
| <input type="checkbox"/> Drowning                                  | <input type="checkbox"/> Utility Interruption                |
| <input type="checkbox"/> Environmental Hazards                     | <input type="checkbox"/> War and Criminal Activity           |
| <input type="checkbox"/> Levee Failure                             |  |

### Other Comments

**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetratech.com](mailto:jonathan.raser@tetratech.com)

Date: 17 Nov. 2011  
Municipality/Organization: BANGOR Borough  
County: Northampton

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 X Check here if you want access to the project SharePoint site

Name: John W. Kasten  
Title/Department: Manager  
Address: 197 Pennsylvania Ave. Bangor, Pa. 18013-1922  
Telephone: 610. 588. 2216  
Fax: 610. 588. 6468  
E-mail: boromanager@bangorborough.org

Contact #2 (optional) \_\_\_\_\_ Check here if you want access to the project SharePoint site

Name: \_\_\_\_\_  
Title/Department: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-mail: \_\_\_\_\_

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone



Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

Flooding, storm water issues, basement flooding

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

Drainage imp., acq. of floodprone parcels, ordinances,

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.

move of the above — improvements to culapping,  
aged state storm water culverts, sinkholes

**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetratech.com](mailto:jonathan.raser@tetratech.com)

Date: 11-17-11

Municipality/Organization: BANGOR AREA SCHOOL DISTRICT

County: NORTHAMPTON

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):

\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint site

Name: Ralph Falcone

Title/Department: DIRECTOR SAFETY + SECURITY + TRANSPORTATION

Address: 123 5POINTS RICHMOND ROAD BANGOR PA.

Telephone: 610-599-7025

Fax: \_\_\_\_\_

E-mail: FALCONER@BANGORSD.ORG

Contact #2 (optional) \_\_\_\_\_ Check here if you want access to the project SharePoint site

Name: \_\_\_\_\_

Title/Department: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail

☐ Regular Mail

☒ Telephone



## Evaluation of Identified Hazards and Risk

Name: John W. KASTEN

Title: Boro Manager

Jurisdiction: Borough of Boro

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	I	
Extreme Temperature*	I	
Flood, Flash Flood, Ice Jam	I	
Hailstorm*	I	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	I	
Tornado, Wind storm*	I	
Wildfire	NC	
Winter Storm	I	

*\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.*

## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |   |  |
|---|--|
| <input type="checkbox"/> Avalanche/Glacier                                | <input type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                                  | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                                 | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                                  | <input type="checkbox"/> Volcano                         |
| <input checked="" type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

#### *Human-Made*

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident                    |
| <input type="checkbox"/> Civil Disturbance                         | <input type="checkbox"/> Terrorism                           |
| <input type="checkbox"/> Dam Failure                               | <input checked="" type="checkbox"/> Transportation Accidents |
| <input type="checkbox"/> Disorientation                            | <input type="checkbox"/> Urban Fire and Explosion            |
| <input checked="" type="checkbox"/> Drowning (mine holes)          | <input checked="" type="checkbox"/> Utility Interruption     |
| <input checked="" type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity           |
| <input type="checkbox"/> Levee Failure                             |  |

### Other Comments

## Mitigation Project Capture Sheet

<b>Contact Information:</b> <i>Name:</i> John W. Kasten <i>Title:</i> Borough Manager <i>Department/Agency:</i> Bangor Borough <i>Telephone:</i> 610.588.2216	
<b>Project Location:</b> Pennsylvania Avenue Bangor Borough, North Main St. Bangor Borough	
<b>Project Description</b> <i>(Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced: Reconstruct approx.. 4,000 linear feet of roadway including reconstruction of storm water lines. Flood damage and potential relief of sewer inflow/infiltration.</i>	
<b>Lead Agency:</b> Bangor Borough	<b>Support Agencies:</b> Various State Agencies
<b>Project Cost:</b> High	<b>Funding Source</b> <i>(if known):</i> PEMA, FEMA, Bangor Borough
<b>Timeline:</b> Short	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years. Long Term = 5 years or greater. OG = On-going program. DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information:</b> <i>Name:</i> John W. Kasten <i>Title:</i> Borough Manager <i>Department/Agency:</i> Bangor Borough <i>Telephone:</i> 610.588.2216	
<b>Project Location:</b> Viaduct-Blue Ridge Creek through center of Borough	
<b>Project Description</b> <i>(Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced: Stabilize Viaduct, remove waterway impediments. Flooding.</i>	
<b>Lead Agency:</b> PENNDOT	<b>Support Agencies:</b>
<b>Project Cost:</b> High	<b>Funding Source</b> <i>(if known):</i>
<b>Timeline:</b> Short	

**Costs:**

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

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.

**Funding Source:**

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

**Timeline:**

Short = 1 to 5 years.    Long Term = 5 years or greater.    OG = On-going program.    DOF = Depending on funding.



## Mitigation Project Capture Sheet

<b>Contact Information:</b> <i>Name:</i> John W. Kasten <i>Title:</i> Borough Manager <i>Department/Agency:</i> Bangor Borough <i>Telephone:</i> 610.588.2216	
<b>Project Location:</b> Capitol Boulevard East Bangor	
<b>Project Description</b> <i>(Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced: Reconstruct collapsed drainage culvert and re-route to mitigate flooding.</i>	
<b>Lead Agency:</b> Bangor Borough	<b>Support Agencies:</b> Various State Agencies
<b>Project Cost:</b> High	<b>Funding Source</b> <i>(if known):</i> Casino Grant, PEMA, FEMA, Bangor Borough
<b>Timeline:</b> Short	

**Costs:**

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

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.

**Funding Source:**

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

**Timeline:**

Short = 1 to 5 years.    Long Term = 5 years or greater.    OG = On-going program.    DOF = Depending on funding.

Phone: 610.588.2216  
boromanager@bangorborough.org

- 1. Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate it's estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
EXAMPLE: Hazard Mitigation Plan	X	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	2006		Bangor	+	+	Updated 2008
Emergency Operations Plan	X	11/2010		Bangor	+	+	
Disaster Recovery Plan	X	"		"	"	"	
Evacuation Plan	X	"		"	"	"	
Continuity of Operations Plan	X	"		"	"	"	
NFIP	X						See County for Info
NFIP – Community Rating System			X				See County for Info

# Appendix 3: Capability Assessment Survey

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
Floodplain Regulations (spec. NFIP Flood Damage Prevention Ordinance)	X			Bangor	+	+	
Floodplain Management Plan			X	"		+	
Zoning Regulations	X	2005		"	+	+	
Subdivision Regulations	X	1985		"	+	+	
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	X	10/2005					
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X	12/09		"	+	+	
Stormwater Management Plan / Ordinance	X			"	+	+	
Natural Resource Protection Plan							
Capital Improvement Plan	X	12/10		"	+	+	
Economic Development Plan	X	Unknown		"	+	+	
Historic Preservation Plan	X		X	Bangor	+		
Farmland Preservation							
Building Code	X			Bangor	+	+	
Fire Code	X			Bangor	+	+	
Firewise							
Storm Ready							

# Appendix 3: Capability Assessment Survey

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support 0 Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
Other							

2. **Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		Bangor/County	Consultants
Planners or engineers (with natural and/or human caused hazards knowledge)	X		"	"
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)	X		"	"
Emergency Manager	X		"	Appointed Staff
NFIP Floodplain Administrator	X		Bangor	"
Land Surveyors	X		Bangor	Consultants
Scientists or staff familiar with the hazards of the community	X		"	"
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program		X		
Grant writers or fiscal staff to handle large/complex grants	X		Bangor/County	Staff
Staff with expertise or training in Benefit-Cost Analysis	X		"	
Other				

3. **Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources *for hazard mitigation purposes* (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming	X		Bangor	
Community Development Block Grants (CDBG)	X		Bangor/County	
Special Purpose Taxes		X		
Gas / Electric Utility Fees		X		
Water / Sewer Fees		X		
Stormwater Utility Fees		X		
Development Impact Fees	X			
General Obligation, Revenue, and/or Special Tax Bonds	X		Bangor/County	
Partnering Arrangements or Intergovernmental Agreements	X		Bangor/County	
Other				

4. **Community Political Capability:** Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

←

→

5-Very Willing	3-Moderately Willing	0-Unwilling to Adopt Policies/Programs	Score: <u>  5  </u>
----------------	----------------------	--	---------------------

5. **Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability		X	
Administrative and Technical Capability		X	X
Fiscal Capability		X	
Community Political Capability			X
Community Resiliency Capability		X	





Mitigation Action Plan Review Worksheet for Bangor Borough

Existing Mitigation Action		Status				Review Comments
Description	Location	No Progress / Unknown	In Progress / Not Yet Complete	Continuous	Completed	
Repair/stabilize viaduct, remove waterway impediments	Viaduct - Blue Ridge Creek through center of Boro			X		This project is to be carried forward.

LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetratech.com](mailto:jonathan.raser@tetratech.com)

Date: 11/17/11

Municipality/Organization: Bushkill Twp

County: Northampton

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint site

Name: Brian Harris

Title/Department: Manager

Address: 1114 Bushkill center Road Nazareth, PA 18064

Telephone: 610 759-1250 cell - 610-972-9729

Fax: 610 759-8545

E-mail: HARR3271@GMAIL.COM

Contact #2 (optional) ☒ Check here if you want access to the project SharePoint site

Name: Thom Barnowski

Title/Department: EMC

Address: 1114 Bushkill center Road Nazareth PA 18064

Telephone: 610 759-9766, cell 484-221-2100

Fax: \_\_\_\_\_

E-mail: TBARNOWSKI@NORTHAMPTON.EDU

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone



Brian Harris - Bushkill Twp

Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

Roads along Bushkill creek

Bridges along/over Bushkill creek

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.



**Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?**

*Structures along streambeds*

**Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)**

*Gabian basket replacements*

**Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.**

*None*





## Evaluation of Identified Hazards and Risk

Name: Brian D. Harris

Title: Township Mgr.

Jurisdiction: \_\_\_\_\_

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	NC	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	NC	
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	NC	
Tornado, Wind storm*	NC	
Wildfire	NC	
Winter Storm	NC	

*\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.*





## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |   |  |
|---|--|
| <input type="checkbox"/> Avalanche/Glacier                                | <input checked="" type="checkbox"/> Invasive Species     |
| <input type="checkbox"/> Coastal Erosion                                  | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                                 | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                                  | <input type="checkbox"/> Volcano                         |
| <input checked="" type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

#### *Human-Made*

- |   |  |
|---|--|
| <input type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident          |
| <input type="checkbox"/> Civil Disturbance              | <input type="checkbox"/> Terrorism                 |
| <input type="checkbox"/> Dam Failure                    | <input type="checkbox"/> Transportation Accidents  |
| <input type="checkbox"/> Disorientation                 | <input type="checkbox"/> Urban Fire and Explosion  |
| <input type="checkbox"/> Drowning                       | <input type="checkbox"/> Utility Interruption      |
| <input type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity |
| <input type="checkbox"/> Levee Failure                  |  |

### Other Comments



### Appendix 3: Capability Assessment Survey

Jurisdiction: \_\_\_\_\_

Point of Contact Name and Title: Brian Harris, Bushkill Township Manager

Phone: 610.759.1250

Email: harr3271@gmail.com

- 1. Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate it's estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
<i>EXAMPLE: Hazard Mitigation Plan</i>	X	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan							
Emergency Operations Plan							
Disaster Recovery Plan							
Evacuation Plan							
Continuity of Operations Plan							
NFIP							
NFIP – Community Rating System							
Floodplain Regulations (spec. NFIP Flood Damage Prevention Ordinance)							
Floodplain Management Plan							



# Appendix 3: Capability Assessment Survey

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
Zoning Regulations	X	1994					
Subdivision Regulations	X	1994					
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	X	2006					
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X	2005					
Stormwater Management Plan / Ordinance	X	2006					
Natural Resource Protection Plan							
Capital Improvement Plan							
Economic Development Plan							
Historic Preservation Plan							
Farmland Preservation							
Building Code							
Fire Code							
Firewise							
Storm Ready							
Other							



2. **Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	✓			
Planners or engineers (with natural and/or human caused hazards knowledge)	✓			
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)	✓			
Emergency Manager	✓			
NFIP Floodplain Administrator				
Land Surveyors	✓			
Scientists or staff familiar with the hazards of the community	✓			
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program	✓			
Grant writers or fiscal staff to handle large/complex grants	✓			
Staff with expertise or training in Benefit-Cost Analysis	✓			
Other				





3. **Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources *for hazard mitigation purposes* (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming		✓		
Community Development Block Grants (CDBG)				
Special Purpose Taxes		✓		
Gas / Electric Utility Fees		✓		
Water / Sewer Fees		✓		
Stormwater Utility Fees		✓		
Development Impact Fees		✓		
General Obligation, Revenue, and/or Special Tax Bonds		✓		
Partnering Arrangements or Intergovernmental Agreements				
Other				



4. **Community Political Capability:** Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

←

→

5-Very Willing      3-Moderately Willing      0-Unwilling to Adopt Policies/Programs      Score: \_\_\_\_\_



5. **Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability		✓	
Administrative and Technical Capability			✓
Fiscal Capability			✓
Community Political Capability			✓
Community Resiliency Capability			✓



**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetratech.com](mailto:jonathan.raser@tetratech.com)

Date: 11/30/2011  
Municipality/Organization: East Allen Township  
County: Northampton County

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint site

Name: John McDevitt  
Title/Department: EMA Coordinator  
Address: 710 S. Cottonwood Rd. Walnutport, PA 18088  
Telephone: Cell 484-239-2766  
Fax: 610-262-7415  
E-mail: jmcd1@ptd.net (or) jmcdevitt@eastallenfire.org

Contact #2 (optional) ☒ Check here if you want access to the project SharePoint site

Name: Chris Post  
Title/Department: Deputy EMA Coordinator  
Address: 1271 Old Gate Rd. Northampton, PA 18067  
Telephone: 610-972-1963  
Fax: 610-262-7415  
E-mail: Chris.post@yahoo.com (or) cpost@northampton.edu

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone



**Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?**

There is a flood zone along the Monocacy Creek which parallels PA Route 512 in East Allen Township. At times the flooding requires the closure of Route 512 from the Bath Borough line into Hanover Township. This problem is particularly bad in the area where Route 512 crosses the creek. There is also a Norfolk Southern grade crossing at this location. There are homes in the area that require evacuation during flooding, including one group home. The closure of Route 512 requires the diversion of all traffic onto alternate roads. In most cases these alternate roads are not capable of handling the large truck traffic. It is not unusual for 40-ton trucks to end up on Jacksonville Rd. with a deteriorating bridge rated at 15 tons.

A second area with serious flooding issues is in the East Allen Manor section. This encompasses the area around Munsee Lane, Mohawk Drive and Colony Drive. This area is not within an identified flood zone.

**Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)**

The issues related to the flooding of the Monocacy Creek along Route 512 were identified in the 2006 Hazard Mitigation Plan. To my knowledge the only work done to alleviate the problem so far has been debris removal in and along stream banks and under bridges and trestles. This area was identified in the 2006 Hazard Mitigation Plan.

The area in East Allen Manor was also shown on the 2006 Hazard Mitigation Plan without a specific plan for improvement.

**Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.**

The two hazard areas identified above must be addressed.





**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: 11/17/11  
Municipality/Organization: East Allen Township  
County: Northampton

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint site

Name: Deborah A. Seiple  
Title/Department: Township Manager  
Address: 5344 Nor Bath Blvd, Northampton, PA  
Telephone: 610-262-7961, Ext 304 18064  
Fax: 610-262-8788  
E-mail: manager@eastallentwp.org  
EASTALLWTP.ORG

Contact #2 (optional) ☐ Check here if you want access to the project SharePoint site

Name: \_\_\_\_\_  
Title/Department: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-mail: \_\_\_\_\_

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone



Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

Mohawk/Shawnee Drive area - Southern  
Pt. of Twp. also along Hanover Street  
in area of Twp. Park  
Hanover Street runs along a flood  
plain.

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

review & planning stages

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.

Our engineering firm for the Twp. is  
reviewing this presently. (over the next 6)  
mos. also.

## Evaluation of Identified Hazards and Risk

Name: John McDevitt

Title: EMA Coordinator

Jurisdiction: East Allen Township

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	NC	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	I	
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	I	
Tornado, Wind storm*	NC	
Wildfire	NC	
Winter Storm	NC	

*\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.*

## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |   |  |
|---|--|
| <input type="checkbox"/> Avalanche/Glacier                                | <input type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                                  | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                                 | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                                  | <input type="checkbox"/> Volcano                         |
| <input checked="" type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

#### *Human-Made*

- |   |  |
|---|--|
| <input type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident          |
| <input type="checkbox"/> Civil Disturbance              | <input type="checkbox"/> Terrorism                 |
| <input type="checkbox"/> Dam Failure                    | <input type="checkbox"/> Transportation Accidents  |
| <input type="checkbox"/> Disorientation                 | <input type="checkbox"/> Urban Fire and Explosion  |
| <input checked="" type="checkbox"/> Drowning            | <input type="checkbox"/> Utility Interruption      |
| <input type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity |
| <input type="checkbox"/> Levee Failure                  |  |

### Other Comments

There are more flood events than in the past. As a result more drivers ignore roadblocks and attempt to proceed thru flooded areas. This does increase the risk for drowning.

## Evaluation of Identified Hazards and Risk

Name: Deborah A Seiple  
 Jurisdiction: East Allen Twp

Title: Township Manager

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  NC = No Change; I = Increase; D = Decrease  (Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)	Additional Comments
<b>Natural Hazards</b>		
Drought	D	excessive rain in 2011
Earthquake	I	1st Time this summer
Extreme Temperature*	—	
Flood, Flash Flood, Ice Jam	I	This is our biggest issue in our twp
Hailstorm*	—	
Landslide*	—	
Lightning Strike*	—	
Radon Exposure*	—	
Subsidence, Sinkhole	I	our area prone to sinkholes - increase due to excess rain
Tornado, Wind storm*	—	
Wildfire	—	
Winter Storm	I	more storms ea year - multiple times per wk

\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.

## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |   |  |
|---|--|
| <input type="checkbox"/> Avalanche/Glacier                                | <input type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                                  | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                                 | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                                  | <input type="checkbox"/> Volcano                         |
| <input checked="" type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

#### *Human-Made*

- |   |  |
|---|--|
| <input type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident          |
| <input type="checkbox"/> Civil Disturbance              | <input type="checkbox"/> Terrorism                 |
| <input type="checkbox"/> Dam Failure                    | <input type="checkbox"/> Transportation Accidents  |
| <input type="checkbox"/> Disorientation                 | <input type="checkbox"/> Urban Fire and Explosion  |
| <input type="checkbox"/> Drowning                       | <input type="checkbox"/> Utility Interruption      |
| <input type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity |
| <input type="checkbox"/> Levee Failure                  |  |

### Other Comments

### Appendix 3: Capability Assessment Survey

Jurisdiction: East Allen Township

Phone: 610-262-7961 & 484-239-2766

Deborah A. Seiple, Twsp. Mgr.

Point of Contact Name and Title: John McDevitt, EMA Coordinator

Email: manager@eastallentwsp.org & jmcdevitt@eastallenfire.org

- 1. Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate it's estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
<i>EXAMPLE: Hazard Mitigation Plan</i>	X	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	10/19/06		Northampton Co. EMS	0		Current plan needs to be expanded
Emergency Operations Plan	X	2/9/11		Twsp. EMA	+		Current plan needs to be expanded
Disaster Recovery Plan	X	2/9/11		Twsp. EMA	+		
Evacuation Plan	X	2/9/11		Twsp. EMA	+		
Continuity of Operations Plan	X	2/9/11		Twsp. EMA	+		
NFIP	X	4/6/01			+		
NFIP – Community Rating System	X	4/6/01			+		
Floodplain Regulations (spec. NFIP Flood Damage Prevention Ordinance)	X	2/1/02			+		
Floodplain Management Plan	X	7/24/08			+		

Appendix 3: Capability Assessment Survey

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
Zoning Regulations	X	2/19/04		PC & BOS	0		
Subdivision Regulations	X	2/19/04		PC & BOS	0		
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	X	12/20/01		PC & BOS	0		
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X	12/14/11		Board of Supervisors	0	+	
Stormwater Management Plan / Ordinance	X	3/22/07		Board of Supervisors	+	+	
Natural Resource Protection Plan	—						
Capital Improvement Plan	—						
Economic Development Plan	—						
Historic Preservation Plan	—						
Farmland Preservation	—						
Building Code	X			CodeMaster	+		3rd party agency
Fire Code	X			CodeMaster	+		3rd party agency
Firewise				EMA & Fire Dept			possible future project
Storm Ready			X	Twsp EMA W/Twsp Mgr & PW Dept.			ongoing effort
Other							



### Appendix 3: Capability Assessment Survey

- 2. Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		Township Planning Commission	Volunteers
Planners or engineers (with natural and/or human caused hazards knowledge)	X		Township Engineer	Outside professional
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)	X		Township Engineer	Outside professional
Emergency Manager	X		Emergency Management	Position is part-time & as needed
NFIP Floodplain Administrator		X		
Land Surveyors	X		Township Engineer	Outside professional
Scientists or staff familiar with the hazards of the community	X		Township Engineer & Township Manager	Outside professional
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program		X		
Grant writers or fiscal staff to handle large/complex grants	X		Township Manager & Township Engineer	Grant writer is dependent on type of grant app.
Staff with expertise or training in Benefit-Cost Analysis		X		
Other				

3. **Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources *for hazard mitigation purposes* (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming		X		
Community Development Block Grants (CDBG)	?			Our Twsp. usually does not qualify.
Special Purpose Taxes		X		
Gas / Electric Utility Fees		X		
Water / Sewer Fees		X		
Stormwater Utility Fees		X		
Development Impact Fees		X		
General Obligation, Revenue, and/or Special Tax Bonds	X		Board of Supervisors	Not presently being used.
Partnering Arrangements or Intergovernmental Agreements		X		Not presently being used.
Other				

4. **Community Political Capability:** Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

←	→
5-Very Willing	0-Unwilling to Adopt Policies/Programs
3-Moderately Willing	Score: <u>3</u>

5. **Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability		X	
Administrative and Technical Capability		X	
Fiscal Capability	X		
Community Political Capability	X		
Community Resiliency Capability	X		

**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: \_\_\_\_\_

Municipality/Organization: \_\_\_\_\_

County: \_\_\_\_\_

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):

\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint site

Name: \_\_\_\_\_

Title/Department: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Contact #2 (optional) \_\_\_\_\_ Check here if you want access to the project SharePoint site

Name: \_\_\_\_\_

Title/Department: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail

☐ Regular Mail

☐ Telephone



Kenneth Brown - EAST BANGOR

**Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?**

**Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)**

**Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.**

Raise road surfaces & increase pipe culvert sizes  
on N. Broad St & Capitol Blvd



**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: November 30 2011

Municipality/Organization: Hanover Township

County: Northampton County

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 X Check here if you want access to the project SharePoint site

Name: John Finnigan

Title/Department: Township Manager

Address: 3630 Jacksonville Rd, Bethlehem PA, 18017

Telephone: 610-866-1140

Fax: 610-758-9116

E-mail: jffinnigan@hanovertwp-nc.org

Contact #2 (optional) X Check here if you want access to the project SharePoint site

Name: Vincent Milite

Title/Department: Public Works Director

Address: 3630 Jacksonville Rd, Bethlehem PA, 18017

Telephone: 610-866-1140

Fax: 610-758-9116

E-mail: vmilite@hanovertwp-nc.org

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

X E-mail                      Regular Mail                      Telephone



**Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?**

Sinkholes, Industrial accidents, Bomb threats, Snow storms,  
Ice storms, Accidents, Fires

**Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)**

**Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.**





**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: 11-17-11

Municipality/Organization: Hellertown Borough

County: Northampton

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint site

Name: Cathy Kichline

Title/Department: Borough Manager

Address: 685 main st. Hellertown PA 18055

Telephone: 610-838-7041

Fax: 610-838-0500

E-mail: C. Kichline@hellertownborough.org

Contact #2 (optional) ☐ Check here if you want access to the project SharePoint site

Name: \_\_\_\_\_

Title/Department: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone



Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

1. Silver Creek - Streambank stabilization to prevent flooding.
2. Water St. bridge
3. Saucon Creek - Streambank stabilization to prevent flooding.
4. Easton Rd / Cherry Ln. stormwater.

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.

Open floodway at Thomas Iron Works site (Boro owned) - Move slag banks to open floodway of Saucon Creek.

**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: 11/17/2011

Municipality/Organization: HELLERTOWN BOROUGH

County: Northampton

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint site

Name: Christopher Scherer

Title/Department: Emergency Management Coordinator

Address: 865 Main Street, HELLERTOWN, PA 18055

Telephone: 610-730-4910 (cell)

Fax: \_\_\_\_\_

E-mail: CMSCHERRER13@VERIZON.NET

Contact #2 (optional) ☒ Check here if you want access to the project SharePoint site

Name: Angie Bauer

Title/Department: Administrative Assistant, Borough of HELLERTOWN

Address: 865 Main Street, HELLERTOWN PA 18055

Telephone: 610-838-7041

Fax: \_\_\_\_\_

E-mail: abauer@hellertownborough.org

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone



**Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?**

flooding due to water runoff;  
power outages due to storm damages (snow fall & winds)

**Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)**

Not currently known

**Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.**

**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: 11/17/11

Municipality/Organization: Borough of Hellertown

County: NORTHAMPTON

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☐ Check here if you want access to the project SharePoint site

Name: JOSEPH D. CHERNASKEY

Title/Department: Zoning / CODE ENFORCEMENT OFFICER

Address: 685 MAIN ST HELLETTOWN PA 18055

Telephone: 610-838-7041

Fax: 610-838-0500

E-mail: J.CHERNASKEY@HELLETTOWNBOROUGH.ORG

Contact #2 (optional) ☒ Check here if you want access to the project SharePoint site

Name: \_\_\_\_\_

Title/Department: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone



Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

SILVER CREEK (TRIBUTE TO SAUCON CREEK) RUNS THROUGH TOWN  
& UNDER RT. 412 (MAIN ST) & SOME BUILDINGS.

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

N/A

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.

~~WATER~~ ALL BRIDGES THAT SILVER CREEK RUNS UNDER  
NEED TO BE WIDER. SOME TEND TO BOTTLENECK & CREATE  
BACKUP OF WATER FLOW.

## Evaluation of Identified Hazards and Risk

Name: Cathy Kichline

Title: Borough Manager

Jurisdiction: Hellertown

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	NC	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	I	Continued increased flood damage
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	NC	
Tornado, Wind storm*	NC	
Wildfire	NC	
Winter Storm	NC I	

*\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.*

## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |   |  |
|---|--|
| <input type="checkbox"/> Avalanche/Glacier                                | <input type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                                  | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                                 | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                                  | <input type="checkbox"/> Volcano                         |
| <input checked="" type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

#### *Human-Made*

- |   |  |
|---|--|
| <input type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident                    |
| <input type="checkbox"/> Civil Disturbance              | <input type="checkbox"/> Terrorism                           |
| <input type="checkbox"/> Dam Failure                    | <input checked="" type="checkbox"/> Transportation Accidents |
| <input type="checkbox"/> Disorientation                 | <input type="checkbox"/> Urban Fire and Explosion            |
| <input type="checkbox"/> Drowning                       | <input checked="" type="checkbox"/> Utility Interruption     |
| <input type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity           |
| <input type="checkbox"/> Levee Failure                  |  |

### Other Comments



## Evaluation of Identified Hazards and Risk

Name: Joseph CHERNASKEY

Title: Zoning / Code Enforcement Officer

Jurisdiction: Hellertown Borough

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	NC	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	I	
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	NC	
Tornado, Wind storm*	NC	
Wildfire	NC	
Winter Storm	NC	

*\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.*

## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |  |  |
|--|--|
| <input type="checkbox"/> Avalanche/Glacier                     | <input type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                       | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                      | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                       | <input type="checkbox"/> Volcano                         |
| <input type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

#### *Human-Made*

- |   |  |
|---|--|
| <input type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident          |
| <input type="checkbox"/> Civil Disturbance              | <input type="checkbox"/> Terrorism                 |
| <input type="checkbox"/> Dam Failure                    | <input type="checkbox"/> Transportation Accidents  |
| <input type="checkbox"/> Disorientation                 | <input type="checkbox"/> Urban Fire and Explosion  |
| <input type="checkbox"/> Drowning                       | <input type="checkbox"/> Utility Interruption      |
| <input type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity |
| <input type="checkbox"/> Levee Failure                  |  |

### Other Comments

due 12/11

### Appendix 3: Capability Assessment Survey

Jurisdiction: HELEFERTOWN Point of Contact Name and Title: Cathy Kichline  
 Phone: 610-838-7041 Email: C.Kichline@helefortownborough.org

**1. Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate it's estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
EXAMPLE: Hazard Mitigation Plan	X	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	7/06		COUNTY	+		
Emergency Operations Plan	X			LOCAL E.M.	+	+	
Disaster Recovery Plan							
Evacuation Plan							
Continuity of Operations Plan							
NFIP							
NFIP - Community Rating System							
Floodplain Regulations (spec. NFIP Flood Damage Prevention Ordinance)							
Floodplain Management Plan	X	4/7/86		ADMIN	+	+	

# Appendix 3: Capability Assessment Survey

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support 0 Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
Zoning Regulations	X	2007	X	Admin	+	+	current revisions to be adopted 2012
Subdivision Regulations	X	5/5/86			+	+	
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)							
Open Space Management Plan (or Parks/Rec or Greenways Plan)							
Stormwater Management Plan / Ordinance	X	3/2/05			+	+	
Natural Resource Protection Plan							
Capital Improvement Plan			X	Admin	+		
Economic Development Plan							
Historic Preservation Plan							
Farmland Preservation							
Building Code	X	2011					adopted 2005 18c + 15c
Fire Code	X	2011					
Firewise							
Storm Ready							
Other							

2. **Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)		X		Use Borough Engineer
Planners or engineers (with natural and/or human caused hazards knowledge)		X		
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)	X		Zoning + code	
Emergency Manager	X			
NFIP Floodplain Administrator		X		
Land Surveyors		X		
Scientists or staff familiar with the hazards of the community		X		
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program		X		
Grant writers or fiscal staff to handle large/complex grants		X		
Staff with expertise or training in Benefit-Cost Analysis		X		
Other				



3. **Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources *for hazard mitigation purposes* (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming	X		COUNCIL MANAGER	
Community Development Block Grants (CDBG)	X		MANAGER	
Special Purpose Taxes	X		COUNCIL	
Gas / Electric Utility Fees		X		
Water / Sewer Fees		X		
Stormwater Utility Fees		X		
Development Impact Fees		X		
General Obligation, Revenue, and/or Special Tax Bonds	X		COUNCIL	
Partnering Arrangements or Intergovernmental Agreements	X		COUNCIL	
Other				

4. **Community Political Capability:** Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.



5-Very Willing                      3-Moderately Willing                      0-Unwilling to Adopt Policies/Programs                      Score: \_\_\_\_\_

- 5. Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			X
Administrative and Technical Capability		X	
Fiscal Capability	X		
Community Political Capability		X	
Community Resiliency Capability		X	



**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: 11-17-11  
Municipality/Organization: LOWER SAUCOON TOWNSHIP  
County: NORTHAMPTON

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 X Check here if you want access to the project SharePoint site

Name: JACK CAHALAN  
Title/Department: TOWNSHIP MANAGER  
Address: 3700 OLD PHILADELPHIA PIKE, BETHLEHEM, PA 18015  
Telephone: (610) 865-3291  
Fax: (610) 867-3580  
E-mail: MANAGER@LOWERSAUCOON.TOWNSHIP.ORG

Contact #2 (optional) \_\_\_\_\_ Check here if you want access to the project SharePoint site

Name: \_\_\_\_\_  
Title/Department: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-mail: \_\_\_\_\_

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

✓ E-mail \_\_\_\_\_ Regular Mail \_\_\_\_\_ Telephone \_\_\_\_\_



Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

FLOODING SMALL STREAMS AND SAUCOON CREEK

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

- PROHIBITION OF BUILDING ON STEEP SLOPES
- INCREASE IN RIPARIAN BUFFERS

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.



## Evaluation of Identified Hazards and Risk

Name: JACK CANALAN Title: TOWNSHIP MANAGER  
 Jurisdiction: LOWER SAUCEON TOWNSHIP

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	NC	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	I	MORE FLOODING
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	I	MORE SINKHOLES
Tornado, Wind storm*	NC	
Wildfire	NC	
Winter Storm	NC	

*\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.*

## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |  |  |
|--|--|
| <input type="checkbox"/> Avalanche/Glacier                     | <input type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                       | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                      | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                       | <input type="checkbox"/> Volcano                         |
| <input type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

#### *Human-Made*

- |   |  |
|---|--|
| <input type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident          |
| <input type="checkbox"/> Civil Disturbance              | <input type="checkbox"/> Terrorism                 |
| <input type="checkbox"/> Dam Failure                    | <input type="checkbox"/> Transportation Accidents  |
| <input type="checkbox"/> Disorientation                 | <input type="checkbox"/> Urban Fire and Explosion  |
| <input type="checkbox"/> Drowning                       | <input type="checkbox"/> Utility Interruption      |
| <input type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity |
| <input type="checkbox"/> Levee Failure                  |  |

### Other Comments

**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetratech.com](mailto:jonathan.raser@tetratech.com)

Date:

1/31/12

Municipality/Organization:

NAZARETH BORO

County:

NORTHAMPTON

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):

\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1

☒

Check here if you want access to the project SharePoint site

Name:

Michael Rinker

Title/Department:

EMERGENCY MANAGEMENT Director

Address:

160 Kingsbury Ct. NAZARETH, Pa. 18064

Telephone:

610-972-7518 / 610-365-8171

Fax:

610-759-1073

E-mail:

RINKNC39@RCN.COM

Contact #2 (optional)

☐ Check here if you want access to the project SharePoint site

Name:

Title/Department:

Address:

Telephone:

Fax:

E-mail:

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒

E-mail

☒

Regular Mail

☐ Telephone

Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

- Roof damage to NAZARETH Highway garage Located at:  
GW Stoudt Blvd off of Spring St in Nazareth Boro.
- Severe damage to historical natural spring house at Nazareth Boro park located at: 475 N. Broad St, Nazareth Boro.

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

- We will be doing an upgrade drainage project to help water run off problem at N. Broad St and Spring Brooke Ter.

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.

N/A



## Evaluation of Identified Hazards and Risk

Name: Victor Rodlte Title: Community Planner

Jurisdiction: Borough of Northampton, Northampton County

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	NA
Earthquake	NC	NA
Extreme Temperature*	NC	NA
Flood, Flash Flood, Ice Jam	I	STREAM BANK EROSION ALONG HOKENDAUQUA NEAR MAIN ST BRIDGE AND RAILROAD BRIDGE
Hailstorm*	NC	NA
Landslide*	I	ALONG HOKENDAUQUA RELATED TO ABOVE
Lightning Strike*	NC	NA
Radon Exposure*	NC	NA
Subsidence, Sinkhole	NC	THEY OCCUR FROM TIME TO TIME
Tornado, Wind storm*	NC	NA
Wildfire	NC	NA
Winter Storm	NC	NA

*\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.*



## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |  |  |
|--|--|
| <input type="checkbox"/> Avalanche/Glacier                     | <input type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                       | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                      | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                       | <input type="checkbox"/> Volcano                         |
| <input type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

#### *Human-Made*

- |   |  |
|---|--|
| <input type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident          |
| <input type="checkbox"/> Civil Disturbance              | <input type="checkbox"/> Terrorism                 |
| <input type="checkbox"/> Dam Failure                    | <input type="checkbox"/> Transportation Accidents  |
| <input type="checkbox"/> Disorientation                 | <input type="checkbox"/> Urban Fire and Explosion  |
| <input type="checkbox"/> Drowning                       | <input type="checkbox"/> Utility Interruption      |
| <input type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity |
| <input type="checkbox"/> Levee Failure                  |  |

### Other Comments



### Appendix 3: Capability Assessment Survey

Jurisdiction: Borough of Norampton Point of Contact Name and Title: GENE Zaretsky  
 Phone: 610-262-2576 Email: NORBORO@ENTER.NET

1. **Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate it's estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status			Effect on Loss Reduction:		Change Since Last Plan:		Comments
	In Place	Adopted or Updated	Under Development	Dept./Agency Responsible	+ Support O Neutral - Hinder	+ Positive - Negative		
EXAMPLE: Hazard Mitigation Plan	X	1/1/2006		Hazard County EMA	+	+		Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan								
Emergency Operations Plan	X	7/21/2011		EMERGENCY MANAGER	+	+		
Disaster Recovery Plan								
Evacuation Plan								
Continuity of Operations Plan								
NFIP	X	APRIL 6 2001	X New	ASSISTANT TO BORO MANAGER	+	+		PENDING UPDATE OF NEW FIMA MAPS
NFIP - Community Rating System								
Floodplain Regulations (spec. NFIP Flood Damage Prevention Ordinance)	X	MARCH 15, 2001	X	ASSISTANT TO BORO MANAGER	+	+		
Floodplain Management Plan								

# Appendix 3: Capability Assessment Survey

Tool / Program	In Place	Status Date Adopted or Updated	Under Development	Dept./Agency Responsible	Effect on Loss Reduction:		Change Since Last Plan:	Comments
					+ Support 0 Neutral - Hinder		+ Positive - Negative	
Zoning Regulations	X	12-16-1999		Community Planner	0		+	
Subdivision Regulations	X							
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	X	9-15-2005		ABINGDON BOROUGH PLANNING COMMISSION Community Planner	0		+	
Open Space Management Plan (or Parks/Rec or Greenways Plan)								
Stormwater Management Plan / Ordinance	X	2-5-1998 10-1-1998 5-3-2007		NEWTAMPTON BOROUGH MANAGER	+		+	
Natural Resource Protection Plan								
Capital Improvement Plan								
Economic Development Plan								
Historic Preservation Plan								
Farmland Preservation								
Building Code UCC	X							
Fire Code	X	July 15, 1993	X	BOROUGH MANAGER & FIRE CHIEF	+		+	
Firewise								
Storm Ready								
Other								

2. **Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources		Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)		X		BOROUGH MANAGER - ADMINIST-RATION	
Planners or engineers (with natural and/or human caused hazards knowledge)					
Engineers or professionals, trained in building and/or infrastructure construction practices (includes building inspectors)					
Emergency Manager		X		BOROUGH MANAGER - ADMINIST-RATION	
NFIP Floodplain Administrator					
Land Surveyors					
Scientists or staff familiar with the hazards of the community					
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program					
Grant writers or fiscal staff to handle large/complex grants		X		BOROUGH MANAGER - ADMINIST-RATION	
Staff with expertise or training in Benefit-Cost Analysis					
Other					

3. **Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources *for hazard mitigation purposes* (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming				
Community Development Block Grants (CDBG)	X		BOROUGH MANAGER-ADMINISTRATION	
Special Purpose Taxes				
Gas / Electric Utility Fees				
Water / Sewer Fees	X		NORTHAMPTON WATER AUTHORITY BOROUGH OF NORTHAMPTON	
Stormwater Utility Fees				
Development Impact Fees	X		BOROUGH MANAGER & CODE ENFORCEMENT OFFICER	REGULATION ONLY
General Obligation, Revenue, and/or Special Tax Bonds (IN BUDGET & 980, LTD REMAINS)	X		BOROUGH MANAGER	
Partnering Arrangements or Intergovernmental Agreements	X		INTERGOVERNMENTAL AGREEMENT WITH NORTH CATASAUQUA BOROUGH	
Other				

4. **Community Political Capability:** Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing

3-Moderately Willing

0-Unwilling to Adopt Policies/Programs

Score: 2

5. **Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "x" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability	X		
Administrative and Technical Capability		X	
Fiscal Capability	X		
Community Political Capability	X		
Community Resiliency Capability		X	



**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: 11-17-2011

Municipality/Organization: Borough of Pen Arayl

County: Northampton

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):

\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 X Check here if you want access to the project SharePoint site

Name: ROBIN ZMODA

Title/Department: Borough Manager

Address: 11 N. Robinson Ave, Pen Arayl, PA 18072

Telephone: 610-863-1822

Fax: 610-863-7543

E-mail: manager@penararylborough.com

Contact #2 (optional) \_\_\_\_\_ Check here if you want access to the project SharePoint site

Name: \_\_\_\_\_

Title/Department: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

X E-mail \_\_\_\_\_ Regular Mail \_\_\_\_\_ Telephone \_\_\_\_\_



Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

HAZARD problem:-  
STORMWATER - ISSUES - collection system upgrades  
GROUNDWATER - ISSUES

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

NORRIS AVE. replace culvert - <sup>substantially</sup> complete  
Stormwater Ordinance  
Updated SALDO

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.

Stormwater Collection

## Evaluation of Identified Hazards and Risk

Name: ROBIN ZMODA

Title: Borough Manager

Jurisdiction: Borough of ~~Managers~~  
Penn Arny

PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  NC = No Change; I = Increase; D = Decrease  (Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	NC	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	I	groundwater / stormwater issues
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	I	more frequent strikes
Radon Exposure*	NC	
Subsidence, Sinkhole	NC	
Tornado, Wind storm*	I	intense storm activity
Wildfire	NC	
Winter Storm	I	more frequent ice storms

\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.

## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |   |   |
|---|---|
| <input type="checkbox"/> Avalanche/Glacier                                | <input checked="" type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                                  | <input checked="" type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                                 | <input type="checkbox"/> Tsunami                                    |
| <input checked="" type="checkbox"/> Expansive Soils                       | <input type="checkbox"/> Volcano                                    |
| <input checked="" type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |   |

#### *Human-Made*

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident                     |
| <input checked="" type="checkbox"/> Civil Disturbance              | <input type="checkbox"/> Terrorism                            |
| <input type="checkbox"/> Dam Failure                               | <input checked="" type="checkbox"/> Transportation Accidents  |
| <input checked="" type="checkbox"/> Disorientation                 | <input checked="" type="checkbox"/> Urban Fire and Explosion  |
| <input checked="" type="checkbox"/> Drowning                       | <input checked="" type="checkbox"/> Utility Interruption      |
| <input checked="" type="checkbox"/> Environmental Hazards          | <input checked="" type="checkbox"/> War and Criminal Activity |
| <input type="checkbox"/> Levee Failure                             |   |

### Other Comments

Mitigation Action Plan Review Worksheet for Pen Argyl Borough

Existing Mitigation Action		Status				Review Comments
Description	Location	No Progress / Unknown	In Progress / Not Yet Complete	Continuous	Completed	
Install/replace/repair culvert	Nottle Avenue				X	

**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: November 17, 2011

Municipality/Organization: Plainfield Township

County: Northampton

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 X Check here if you want access to the project SharePoint site

Name: A. J. Olzewski II

Title/Department: Plainfield Township Emergency Management Coordinator

Address: 6292 Sullivan Trail, Nazareth, PA 18064

Telephone: D = 610-759-6944 C = 610-972-5791

Fax: 610-759-1999

E-mail: plainfieldtwpemc@gmail.com

Contact #2 (optional) \_\_\_\_\_ Check here if you want access to the project SharePoint site

Name: \_\_\_\_\_

Title/Department: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

X E-mail \_\_\_\_\_ Regular Mail \_\_\_\_\_ Telephone \_\_\_\_\_



Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

- \* Wildfires on the mountain
- \* Transportation emergency

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

\* None

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.

\* None

LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: November 17, 2011

Municipality/Organization: Tatamy Borough

County: Northampton

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):

\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint site

Name: Robert J. Hayes, Jr.

Title/Department: Boro Council Member

Address: Box 214, Tatamy, PA 18085

Telephone: 610 462 1284

Fax: —

E-mail: ~~rhayesphayes@aol.com~~ tatamy@rcn.com

Contact #2 (optional) ☐ Check here if you want access to the project SharePoint site

Name: \_\_\_\_\_

Title/Department: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone





Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

- Flooding of Bushkill Creek
- Sinkholes
- Railroad
- Route 33 Cargo Transport  
(Hazardous material)

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.

## Evaluation of Identified Hazards and Risk

Name: Robert J. Hayes, Jr.

Title: Councilman

Jurisdiction: Tatamy Borough

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	I	
Extreme Temperature*	I	
Flood, Flash Flood, Ice Jam	I	
Hailstorm*	NC	
Landslide*	I	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	I	
Tornado, Wind storm*	I	
Wildfire	NC	
Winter Storm	NC	

*\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.*

## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |   |  |
|---|--|
| <input type="checkbox"/> Avalanche/Glacier                                | <input type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                                  | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                                 | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                                  | <input type="checkbox"/> Volcano                         |
| <input checked="" type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

#### *Human-Made*

- |   |  |
|---|--|
| <input type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident                    |
| <input type="checkbox"/> Civil Disturbance              | <input type="checkbox"/> Terrorism                           |
| <input type="checkbox"/> Dam Failure                    | <input checked="" type="checkbox"/> Transportation Accidents |
| <input type="checkbox"/> Disorientation                 | <input checked="" type="checkbox"/> Urban Fire and Explosion |
| <input type="checkbox"/> Drowning                       | <input type="checkbox"/> Utility Interruption                |
| <input type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity           |
| <input type="checkbox"/> Levee Failure                  |  |

### Other Comments

## Appendix 3: Capability Assessment Survey

Jurisdiction: Tatamy Borough  
 Phone: 610 252 7123

Point of Contact Name and Title: DEANNE WERKHEISER / SEC  
 Email: dwerkheiser@tatamy.pa.org

1. **Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate it's estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status		Under Development	Dept./Agency Responsible	Effect on Loss Reduction:		Change Since Last Plan:		Comments
	In Place	Date Adopted or Updated			+ Support 0 Neutral - Hinder	+ Positive - Negative			
EXAMPLE: Hazard Mitigation Plan	X	1/1/2006		Hazard County EMA	+		+	Interim update in 2008 revised mitigation strategy; completed one action.	
Hazard Mitigation Plan	X	4/1/06		TATUM EMA	+		+		
Emergency Operations Plan	X	9/6/11		"	+		+		
Disaster Recovery Plan			X	"					
Evacuation Plan	X	9/6/11	X	"					
Continuity of Operations Plan			X	"					
NFIP									
NFIP – Community Rating System									
Floodplain Regulations (spec. NFIP Flood Damage Prevention Ordinance)	X								
Floodplain Management Plan	X								



## Appendix 3: Capability Assessment Survey

Tool / Program	In Place	Status Date Adopted or Updated	Under Develop- ment	Dept./Agency Responsible	Effect on Loss Reduction: + Support 0 Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
Zoning Regulations	X						
Subdivision Regulations	X						
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	X						
Open Space Management Plan (or Parks/Rec or Greenways Plan)							
Stormwater Management Plan / Ordinance	X						
Natural Resource Protection Plan							
Capital Improvement Plan							
Economic Development Plan							
Historic Preservation Plan							
Farmland Preservation							
Building Code	X						
Fire Code							
Firewise							
Storm Ready							
Other							



## Appendix 3: Capability Assessment Survey

2. **Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X			
Planners or engineers (with natural and/or human caused hazards knowledge)	X			
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)	X			
Emergency Manager				
NFIP Floodplain Administrator				
Land Surveyors	X			
Scientists or staff familiar with the hazards of the community				
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program	X			
Grant writers or fiscal staff to handle large/complex grants				
Staff with expertise or training in Benefit-Cost Analysis				
Other				



## Appendix 3: Capability Assessment Survey

3. **Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources *for hazard mitigation purposes* (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming				
Community Development Block Grants (CDBG)	X			
Special Purpose Taxes				
Gas / Electric Utility Fees				
Water / Sewer Fees	X			
Stormwater Utility Fees				
Development Impact Fees	X			
General Obligation, Revenue, and/or Special Tax Bonds	X			
Partnering Arrangements or Intergovernmental Agreements				
Other				



## Appendix 3: Capability Assessment Survey

5. **Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in Appendix 4.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability	X		
Administrative and Technical Capability	X		
Fiscal Capability	X		
Community Political Capability	X		
Community Resiliency Capability	X		



## Appendix 3: Capability Assessment Survey

4. **Community Political Capability:** Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.



5-Very Willing      3-Moderately Willing      0-Unwilling to Adopt Policies/Programs      Score: \_\_\_\_\_



**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: November 28, 2011

Municipality/Organization: Upper Mount Bethel Township

County: Northampton

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):

\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1   X   Check here if you want access to the project SharePoint site

Name: Maureen Sterner

Title/Department: Township Manager

Address: 387 Ye Olde Highway, PO Box 520, Mt. Bethel, PA 18343-5220

Telephone: (570) 897-6127 ext. 26

Fax: (570) 897-0108

E-mail: manager@uppermtbethel.org

Contact #2 (optional) \_\_\_\_\_ Check here if you want access to the project SharePoint site

Name: Lindsey Manzi

Title/Department: Emergency Management Coordinator/Road Department Assistant Foreman

Address: 387 Ye Olde Highway, PO Box 520, Mt. Bethel, PA 18343-5220

Telephone: (570) 897-6127

Fax: (570) 897-0108

E-mail: \_\_\_\_\_

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

  X   E-mail            Regular Mail            Telephone



**Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?**

Buildings and infrastructure along the Delaware River and streams

**Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)**

Please see attached

**Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.**

Please see attached



## Evaluation of Identified Hazards and Risk

Name: LINDSEY MANZI

Title: PUBLIC WORKS DEPT.

Jurisdiction: UPPER MT. BETHEL TWP

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	I	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	I	
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	N.C.	
Tornado, Wind storm*	N.C.	
Wildfire	N.C.	
Winter Storm	NC	

*\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.*

## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |   |   |
|---|---|
| <input type="checkbox"/> Avalanche/Glacier                                | <input checked="" type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                                  | <input checked="" type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                                 | <input type="checkbox"/> Tsunami                                    |
| <input type="checkbox"/> Expansive Soils                                  | <input type="checkbox"/> Volcano                                    |
| <input checked="" type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |   |

#### *Human-Made*

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident                     |
| <input type="checkbox"/> Civil Disturbance                         | <input checked="" type="checkbox"/> Terrorism                 |
| <input checked="" type="checkbox"/> Dam Failure                    | <input checked="" type="checkbox"/> Transportation Accidents  |
| <input type="checkbox"/> Disorientation                            | <input checked="" type="checkbox"/> Urban Fire and Explosion  |
| <input checked="" type="checkbox"/> Drowning                       | <input checked="" type="checkbox"/> Utility Interruption      |
| <input checked="" type="checkbox"/> Environmental Hazards          | <input checked="" type="checkbox"/> War and Criminal Activity |
| <input type="checkbox"/> Levee Failure                             |   |

### Other Comments

## Evaluation of Identified Hazards and Risk

Name: Maureen Sterner Title: Township Manager

Jurisdiction: Upper Mount Bethel Township, Northampton County

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	I	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	I	
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	I	
Tornado, Wind storm*	NC	
Wildfire	NC	
Winter Storm	NC	

*\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.*



## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |   |  |
|---|--|
| <input type="checkbox"/> Avalanche/Glacier                                | <input checked="" type="checkbox"/> Invasive Species     |
| <input type="checkbox"/> Coastal Erosion                                  | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                                 | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                                  | <input type="checkbox"/> Volcano                         |
| <input checked="" type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

#### *Human-Made*

- |   |  |
|---|--|
| <input type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident                    |
| <input type="checkbox"/> Civil Disturbance              | <input checked="" type="checkbox"/> Terrorism                |
| <input checked="" type="checkbox"/> Dam Failure         | <input checked="" type="checkbox"/> Transportation Accidents |
| <input type="checkbox"/> Disorientation                 | <input type="checkbox"/> Urban Fire and Explosion            |
| <input type="checkbox"/> Drowning                       | <input checked="" type="checkbox"/> Utility Interruption     |
| <input type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity           |
| <input type="checkbox"/> Levee Failure                  |  |

### Other Comments

## Appendix 3: Capability Assessment Survey

Jurisdiction: Upper Mount Bethel Township Point of Contact Name and Title: Maureen Sterner

Phone: (570) 897-6127 ext. 26 Email: manager@uppermtbethel.org

**1. Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate it's estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
<i>EXAMPLE: Hazard Mitigation Plan</i>	X	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	11/13/06		UMBT	+	+	Updated 2008
Emergency Operations Plan	X	11/08/10		UMBT	+	+	
Disaster Recovery Plan	X	11/08/10		UMBT	+	+	
Evacuation Plan	X	11/08/10		UMBT	+	+	
Continuity of Operations Plan	X	11/08/10		UMBT	+	+	
NFIP	X	03/26/01		UMBT	+	N/A	
NFIP – Community Rating System			X				
Floodplain Regulations (spec. NFIP Flood Damage Prevention Ordinance)	X	03/26/01		UMBT	+	N/A	Update to Zoning Ordinance
Floodplain Management Plan			X				



# Appendix 3: Capability Assessment Survey

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
Zoning Regulations	X	03/15/04			+	N/A	
Subdivision Regulations	X	11/26/09			+	+	
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	X	07/09/01			+	N/A	
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X	03/09 & 2004			+	+	
Stormwater Management Plan / Ordinance	X	04/09/07			+	N/A	
Natural Resource Protection Plan	X	03/09			+	+	
Capital Improvement Plan			X				
Economic Development Plan			X				
Historic Preservation Plan			X				
Farmland Preservation	X	03/09			+	+	
Building Code	X	06/14/04			+	N/A	
Fire Code	X	06/14/04			+	N/A	
Firewise			X				
Storm Ready			X				
Other							

- 2. Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		UMBT Planning Commission Township Engineer	
Planners or engineers (with natural and/or human caused hazards knowledge)	X		Township Engineer	
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)	X		Building Codes	
Emergency Manager	X		Emergency Management	
NFIP Floodplain Administrator	X		Zoning	
Land Surveyors	X		Township Engineer	
Scientists or staff familiar with the hazards of the community	X		Zoning & Road	
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program	X		Zoning	
Grant writers or fiscal staff to handle large/complex grants	X		Management & Bookkeeping	
Staff with expertise or training in Benefit-Cost Analysis	X		Management & Bookkeeping	
Other				

- 3. Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources *for hazard mitigation purposes* (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming	X		Management	
Community Development Block Grants (CDBG)		X		
Special Purpose Taxes		X		
Gas / Electric Utility Fees		X		
Water / Sewer Fees		X		
Stormwater Utility Fees		X		
Development Impact Fees		X		
General Obligation, Revenue, and/or Special Tax Bonds	X		Management	
Partnering Arrangements or Intergovernmental Agreements	X		Management & Road	
Other				

4. **Community Political Capability:** Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.



5-Very Willing                      3-Moderately Willing                      0-Unwilling to Adopt Policies/Programs                      Score: 3

5. **Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			X
Administrative and Technical Capability			X
Fiscal Capability	X		
Community Political Capability			X
Community Resiliency Capability			X

**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetratech.com](mailto:jonathan.raser@tetratech.com)

Date: January 31, 2012

Municipality/Organization: Borough of Walnutport

County: Northampton

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☐ Check here if you want access to the project SharePoint site

Name: Annette Lacko

Title/Department: Secretary/Treasurer

Address: 417 Lincoln Avenue, Walnutport PA 18088

Telephone: 610-767-1322

Fax: 610-767-4938

E-mail: alacko@palnutportpa.org

Contact #2 (optional) ☐ Check here if you want access to the project SharePoint site

Name: \_\_\_\_\_

Title/Department: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☐ E-mail ☒ Regular Mail ☐ Telephone



**Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?**

**Lehigh Canal and Towpath**

**Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)**

**None**

**Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.**

**None**



## Evaluation of Identified Hazards and Risk

Name: Annette Lacko Title: Secretary/Treasurer

Jurisdiction: Borough of Walnutport

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	NC	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	NC	
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	NC	
Tornado, Wind storm*	NC	
Wildfire	NC	
Winter Storm	NC	

*\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.*



## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |   |   |
|---|---|
| <input type="checkbox"/> Avalanche/Glacier                                | <input type="checkbox"/> Invasive Species                           |
| <input type="checkbox"/> Coastal Erosion                                  | <input checked="" type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                                 | <input type="checkbox"/> Tsunami                                    |
| <input type="checkbox"/> Expansive Soils                                  | <input type="checkbox"/> Volcano                                    |
| <input checked="" type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |   |

#### *Human-Made*

- |   |   |
|---|---|
| <input type="checkbox"/> Building or Structure Collapse   | <input type="checkbox"/> Nuclear Incident                     |
| <input checked="" type="checkbox"/> Civil Disturbance     | <input checked="" type="checkbox"/> Terrorism                 |
| <input checked="" type="checkbox"/> Dam Failure           | <input checked="" type="checkbox"/> Transportation Accidents  |
| <input type="checkbox"/> Disorientation                   | <input checked="" type="checkbox"/> Urban Fire and Explosion  |
| <input type="checkbox"/> Drowning                         | <input checked="" type="checkbox"/> Utility Interruption      |
| <input checked="" type="checkbox"/> Environmental Hazards | <input checked="" type="checkbox"/> War and Criminal Activity |
| <input type="checkbox"/> Levee Failure                    |   |

### Other Comments

## Appendix 3: Capability Assessment Survey

Jurisdiction: Borough of Walnutport Point of Contact Name and Title: Annette Lacko

Phone: 610-767-1322 Email: alacko@walnutportpa.org

- 1. Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate it's estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
<i>EXAMPLE: Hazard Mitigation Plan</i>	X	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X			Northampton County EMA	O		
Emergency Operations Plan	X	1992		Walnutport Borough	O		
Disaster Recovery Plan	X	1992		Walnutport Borough	O		
Evacuation Plan	X	1992		Walnutport Borough	O		
Continuity of Operations Plan							
NFIP							
NFIP – Community Rating System							

Appendix 3: Capability Assessment Survey

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
Floodplain Regulations (spec. NFIP Flood Damage Prevention Ordinance)	X	4/2001		Walnutport Borough	+	+	Last FEMA Map Update
Floodplain Management Plan	X	4/2001		Walnutport Borough	+	+	Last FEMA Map Update
Zoning Regulations	X	2005		Walnutport Borough	+	+	Comprehensive Rewrite
Subdivision Regulations	X	2003		Walnutport Borough	+	+	New adoption
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	X	2005		Walnutport Borough	+	+	Comprehensive Rewrite
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X	2003		Walnutport Borough	O	+	
Stormwater Management Plan / Ordinance	X	2005		Walnutport Borough	O	+	
Natural Resource Protection Plan							
Capital Improvement Plan							
Economic Development Plan							
Historic Preservation Plan							
Farmland Preservation							
Building Code	X	2004		Walnutport Borough	O	+	2004 UCC Mandate

# Appendix 3: Capability Assessment Survey

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
Fire Code	X	Unknown		Walnutport Borough	O	+	
Firewise							
Storm Ready							
Other							

- 2. Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		Borough Consultant – SSM Group, Inc.	
Planners or engineers (with natural and/or human caused hazards knowledge)	X		Borough Consultant – SSM Group, Inc.	
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)	X		Borough Consultant – SSM Group, Inc.	
Emergency Manager	X		Walnutport Borough	EM Coordinator
NFIP Floodplain Administrator	X		Walnutport Borough	Zoning Officer
Land Surveyors	X		Borough Consultant – SSM Group, Inc.	
Scientists or staff familiar with the hazards of the community	X		Borough Consultant – SSM Group, Inc.	
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program	X		Borough Consultant – SSM Group, Inc.	
Grant writers or fiscal staff to handle large/complex grants	X		Walnutport Borough	Grant Coordinator
Staff with expertise or training in Benefit-Cost Analysis		X		
Other				

3. **Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources *for hazard mitigation purposes* (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming		X		
Community Development Block Grants (CDBG)	X		Northampton County DCED	
Special Purpose Taxes		X		
Gas / Electric Utility Fees		X		
Water / Sewer Fees		X		
Stormwater Utility Fees		X		
Development Impact Fees	X		Walnutport Borough	For Recreation purposes only
General Obligation, Revenue, and/or Special Tax Bonds	X		Walnutport Borough	
Partnering Arrangements or Intergovernmental Agreements	X		Walnutport Borough	
Other				

4. **Community Political Capability:** Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing

3-Moderately Willing

0-Unwilling to Adopt Policies/Programs

Score: 3

5. **Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability	X		
Administrative and Technical Capability	X		
Fiscal Capability	X		
Community Political Capability			X
Community Resiliency Capability			X





LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetratech.com](mailto:jonathan.raser@tetratech.com)

Date: 11/17/11Municipality/Organization: WASHINGTON TOWNSHIPCounty: NORTHAMPTON

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):

\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint siteName: RICK WEAVERTitle/Department: ZONING OFFICERAddress: 1021 WASHINGTON BLVD, BANGOR, PA 18013Telephone: 610-588-1524Fax: 610-588-0245E-mail: rweaver@washington-township.comContact #2 (optional) ☐ Check here if you want access to the project SharePoint site

Name: \_\_\_\_\_

Title/Department: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone

Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

1. 500 BLK BANGOR JUNCTION ROAD - FLOODING
2. 300 BLK AMERICAN BANGOR ROAD - FLOODING
3. 1ST BLK OF BRODT ROAD - SHOULDER WASH OUT
4. ELM AVENUE - FLOODING
5. 300 BLK FLICKSVILLE ROAD - FLOODING
6. 600 BLK WASHINGTON BLVD - FLOODING
7. 700 BLK RUTT ROAD - FLOODING
8. 2500 BLK ACKERMANVILLE ROAD - EROSION DEBRISON ROAD
9. 1ST BLK MACK ROAD - WASHOUT SHOULDER
10. 200 BLK OAK ROAD - FLOODING

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

100 BLK AND 500 BLK MOLASSES ROAD DRAINAGE IMPROVEMENT DONE  
 LABAR RD & LWR. SOUTH MAIN STREET - DRAINAGE IMPROVEMENT DONE  
 CEDAR ROAD - DRAINAGE IMPROVEMENT AND ROAD RECONSTRUCTION DONE

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.

ITEMS 1 & 2 PIPE INSTALLATION  
 ITEMS 4, 5, 7, 8 & 10 STORM SEWERS  
 ITEMS 3 & 9 RIP RAP INSTALLATION  
 ITEM 6 - ELEVATE AROUND STREAM

## Evaluation of Identified Hazards and Risk

Name: RICK WEAVER Title: ZONING OFFICER

Jurisdiction: WASHINGTON TOWNSHIP, NORTHAMPTON COUNTY

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?	
	NC = No Change; I = Increase; D = Decrease	Additional Comments
(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)		
Natural Hazards		
Drought	NO CHANGE	
Earthquake	NO CHANGE	
Extreme Temperature*	NO CHANGE	
Flood, Flash Flood, Ice Jam	INCREASED	DUE TO WEATHER
Hailstorm*	NO CHANGE	
Landslide*	NO CHANGE	
Lightning Strike*	INCREASED	DUE TO WEATHER
Radon Exposure*	NO CHANGE	
Subsidence, Sinkhole	NO CHANGE	
Tornado, Wind storm*	INCREASED	DUE TO WEATHER
Wildfire	INCREASED	DCNR NOTIFICATION WE ARE AN AT RISK COMMUNITY
Winter Storm	INCREASED	DUE TO WEATHER

\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.

**PART II****Other Hazards:**

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

***Natural***

- |  |  |
|--|--|
| <input type="checkbox"/> Avalanche/Glacier                     | <input type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                       | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                      | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                       | <input type="checkbox"/> Volcano                         |
| <input type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

***Human-Made***

- |   |  |
|---|--|
| <input type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident                    |
| <input type="checkbox"/> Civil Disturbance              | <input type="checkbox"/> Terrorism                           |
| <input checked="" type="checkbox"/> Dam Failure         | <input checked="" type="checkbox"/> Transportation Accidents |
| <input type="checkbox"/> Disorientation                 | <input type="checkbox"/> Urban Fire and Explosion            |
| <input type="checkbox"/> Drowning                       | <input checked="" type="checkbox"/> Utility Interruption     |
| <input type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity           |
| <input type="checkbox"/> Levee Failure                  |  |

**Other Comments**

### Appendix 3: Capability Assessment Survey

Jurisdiction: WASHINGTON TOWNSHIP Point of Contact Name and Title: RICK WEAVER / ZONING OFFICER

Phone: 610-588-1524 Email: rweaver@washington-township.com

1. Planning and Regulatory Capability: Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate if it's estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	In Place	Status Date Adopted or Updated	Under Development	Dept./Agency Responsible	Effect on Loss Reduction:		Change Since Last Plan:	Comments
					+ Support O Neutral - Hinder	+ Positive - Negative		
EXAMPLE: Hazard Mitigation Plan	X	1/1/2006		Hazard County EMA	+	+		Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	4/2006		NORTHAMPTON TOWNSHIP EMA				
Emergency Operations Plan	X	2000		WASHINGTON COUNTY EMA				
Disaster Recovery Plan								
Evacuation Plan								
Continuity of Operations Plan								
NFIP	X	2001		Zoning				
NFIP - Community Rating System	X	2001		Zoning				
Floodplain Regulations (spec. NFIP Flood Damage Prevention Ordinance)								
Floodplain Management Plan	X	10/2011		Zoning				IN ZONING ORDINANCE



Tool / Program	In Place	Status Date Adopted or Updated	Under Development	Dept./Agency Responsible	Effect on Loss Reduction: + Support ○ Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
Zoning Regulations	X	10/2011		Zoning			
Subdivision Regulations	X	01/2006		Zoning			
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	X	12/2005		Zoning			
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X	01/2008		RECREATION BOARD			RECREATION MASTER PLAN
Stormwater Management Plan / Ordinance	X	09/2009		TOWNSHIP ENGINEER			
Natural Resource Protection Plan							
Capital Improvement Plan							
Economic Development Plan							
Historic Preservation Plan							
Farmland Preservation							THROUGH HANOVER TOWNSHIP
Building Code							STATE WIDE BUILDING CODE 3RD PARTY
Fire Code							
Firewise							
Storm Ready							
Other							

2. Administrative and Technical Capability: Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

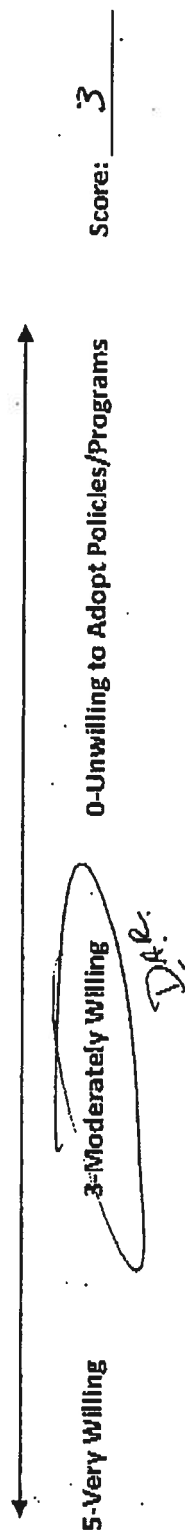
Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		ZONING	
Planners or engineers (with natural and/or human caused hazards knowledge)	X		ZONING	
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)		X	TOWNSHIP ENGINEER	TOWNSHIP ENG - DOES NOT DO BUILDING INSPECTIONS
Emergency Manager	X		BOARD OF SUPERVISORS	
NFIP Floodplain Administrator	X		ZONING	
Land Surveyors	X		BOARD OF SUPERVISORS	TOWNSHIP ENGINEER
Scientists or staff familiar with the hazards of the community	X		ZONING	
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program	X		ZONING	
Grant writers or fiscal staff to handle large/complex grants		X		
Staff with expertise or training in Benefit-Cost Analysis		X		
Other				



3. **Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources for *hazard mitigation purposes* (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming		X		
Community Development Block Grants (CDBG)		X		TOWNSHIP DOES NOT QUALIFY
Special Purpose Taxes		X		
Gas / Electric Utility Fees		X		
Water / Sewer Fees		X		
Stormwater Utility Fees		X		
Development Impact Fees		X		
General Obligation, Revenue, and/or Special Tax Bonds		X		
Partnering Arrangements or Intergovernmental Agreements		X		
Other				

4. **Community Political Capability:** Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.



5. **Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in Appendix 4.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability		X	
Administrative and Technical Capability		X	
Fiscal Capability	X		
Community Political Capability		X	
Community Resiliency Capability		X	

Mitigation Action Plan Review Worksheet for Washington Township

Existing Mitigation Action		Status					Review Comments
Description	Location	No Progress / Unknown	In Progress / Not Yet Complete	Continuous	Completed	Discontinued	
Install/replace/repair culvert	600-700 block Washington Boulevard	✓					
Install/replace/repair culvert	300 Block Flicksville Rd.	✓					
Install/replace/repair culvert	1600-1700 block Lower South Main St.				✓		
Install/replace/repair culvert	Labar Rd. and Lower South Main St.				✓		
Install/replace/repair culvert	1100 Block Mount Pleasant Rd.				✓		
Stormwater Management (stream, channel and bank restoration)	channel and bank restoration) Township-wide	✓					
Install/replace/repair culvert	Unit Block - Washington Boulevard					✓	
Install/replace/repair culvert	500 Block Bangor Junction Rd.	✓					
Install/replace/repair culvert	500 Block Molasses Rd.				✓		

Mitigation Action Plan Review Worksheet for Washington Township

Existing Mitigation Action		Status					Review Comments
Description	Location	No Progress / Unknown	In Progress / Not Yet Complete	Continuous	Completed	Discontinued	
Install/replace/repair culvert	300 Block American Bangor Rd.	✓					
Install/replace/repair culvert	300 Block Blue Valley Drive					✓	
Install/replace/repair culvert	200 Block Blue Valley Drive					✓	
Install/replace/repair culvert	Hahn Rd.	✓					
Install/replace/repair culvert	800 Block Rutt Rd.	✓					
Install/replace/repair culvert	Unit Block - Brodt Rd.				✓		
Install/replace/repair culvert	Unit Block - Cedar Rd.				✓		
Install/replace/repair culvert	1500 Block Second St.	✓					

## Mitigation Project Capture Sheet

<b>Contact Information:</b> <i>Name: Rick Weaver</i> <i>Title: Zoning Officer</i> <i>Department/Agency: Zoning Office / Washington Township</i> <i>Telephone: 610-588-1524</i>	
<b>Project Location: 600-700 block of Washington Blvd (Route 191)</b>	
<b>Project Description</b> <i>(Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced:</i> <b>Fill the eroded area on the south side of Washington Blvd (Route 191) caused by the topping over of the Waltz Creek.</b> <b>This will eliminate the flooding condition which requires closing of the road.</b> <b>Will keep the Waltz Creek within its banks and potentially prevent the flooding of 625, 630 and 636 Washington Blvd. (2 residential and 1 business).</b> <b>Will reduce the need for PennDOT to place road closure signs and reduce/eliminate the need for the Township Police and Fire Department from doing traffic control at this site.</b> <b>Provide for safe travel to the general public.</b>  <i>PennDOT would need to obtain permission from the property owner to place fill on the site. The Township may assist by providing some fill. PennDOT would need to provide equipment and manpower for the final grading and stabilization of the fill.</i>	
<b>Lead Agency: PennDOT</b>	<b>Support Agencies: Washington Township</b>
<b>Project Cost: Low</b>	<b>Funding Source (if known): unknown</b>
<b>Timeline: none this is a State Roadway</b> <b>Could be short - DOF</b>	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.    Long Term = 5 years or greater.    OG = On-going program.    DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information:</b> <i>Name:</i> <b>Rick Weaver</b> <i>Title:</i> <b>Zoning Officer</b> <i>Department/Agency:</i> <b>Zoning Office / Washington Township</b> <i>Telephone:</i> <b>610-588-1524</b>	
<b>Project Location:</b> <i>300 block of Flicksville Road</i>	
<b>Project Description</b> <i>(Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced:</i> <b>Install catch basins and storm sewer piping to discharge the low lying area to the Martins Creek. This will eliminate the flooding condition which requires closing of the road.</b> <b>Will eliminate the flooding of 302, 304 and 311 Flicksville Road. (3 residential).</b> <b>Will reduce the need for Township Road crew to place road closure signs and reduce the need for the Township Police and Fire Department from doing traffic control at this site.</b>	
<b>Lead Agency:</b> <i>Washington Township</i>	<b>Support Agencies:</b>
<b>Project Cost:</b> <i>Medium</i>	<b>Funding Source</b> <i>(if known): unknown</i>
<b>Timeline:</b> <i>DOF</i>	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.    Long Term = 5 years or greater.    OG = On-going program.    DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information:</b> <i>Name:</i> <b>Rick Weaver</b> <i>Title:</i> <b>Zoning Officer</b> <i>Department/Agency:</i> <b>Zoning Office / Washington Township</b> <i>Telephone:</i> <b>610-588-1524</b>	
<b>Project Location:</b> <i>500 Bangor Junction Road</i>	
<b>Project Description</b> <i>(Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced:</i> <b>Install additional storm sewer piping under the abandoned railroad bed to allow downstream flow.</b> <b>This will eliminate the damming causing the flooding condition which requires closing of the road.</b> <b>Will eliminate flooding the access to 500 Bangor Junction Road. (1 residential).</b> <b>Will reduce the need for Township Road crew to place road closure signs and reduce the need for the Township Police and Fire Department from doing traffic control at this site.</b>	
<b>Lead Agency:</b> <i>Washington Township</i>	<b>Support Agencies:</b>
<b>Project Cost:</b> <i>Low</i>	<b>Funding Source</b> <i>(if known): unknown</i>
<b>Timeline:</b> <i>DOF</i>	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

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 reappropriation 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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.    Long Term = 5 years or greater.    OG = On-going program.    DOF = Depending on funding.



## Mitigation Project Capture Sheet

<b>Contact Information:</b> <i>Name:</i> <b>Rick Weaver</b> <i>Title:</i> <b>Zoning Officer</b> <i>Department/Agency:</i> <b>Zoning Office / Washington Township</b> <i>Telephone:</i> <b>610-588-1524</b>	
<b>Project Location:</b> <i>300 block of American Bangor Road</i>	
<b>Project Description</b> <i>(Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced:</i> <b>Install additional or larger storm sewer piping to allow the storm water to flow to the south side of American Bangor Road without topping over the roadway.</b> <b>Clear vegetation and trees, excavate and clean the roadside swales on the north side of American Bangor Road to allow more volume of water to remain within the swale.</b> <b>This will eliminate the flooding condition which requires closing of the road.</b> <b>Will reduce the need for Township Road crew to place road closure signs and reduce the need for the Township Police and Fire Department from doing traffic control at this site.</b>	
<b>Lead Agency:</b> <i>Washington Township</i>	<b>Support Agencies:</b>
<b>Project Cost:</b> <i>Medium</i>	<b>Funding Source</b> <i>(if known): unknown</i>
<b>Timeline:</b> <i>DOF</i>	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.    Long Term = 5 years or greater.    OG = On-going program.    DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information:</b> <i>Name: Rick Weaver</i> <i>Title: Zoning Officer</i> <i>Department/Agency: Zoning Office / Washington Township</i> <i>Telephone: 610-588-1524</i>	
<b>Project Location: <i>Hahn Road</i></b>	
<b>Project Description</b> <i>(Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced:</i> <b>Road reconstruction, replace existing storm sewer piping with larger pipes and install additional catch basins and storm sewer piping to handle the volume of storm water.</b> <b>This will eliminate the erosion and washouts.</b> <b>Will reduce the continuous restoration required by the Township Road crew after rain events.</b>	
<b>Lead Agency: <i>Washington Township</i></b>	<b>Support Agencies:</b>
<b>Project Cost: <i>Medium</i></b>	<b>Funding Source (if known): <i>unknown</i></b>
<b>Timeline: <i>DOF</i></b>	

**Costs:**

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

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.

**Funding Source:**

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

**Timeline:**

Short = 1 to 5 years.    Long Term = 5 years or greater.    OG = On-going program.    DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information:</b> <i>Name:</i> <b>Rick Weaver</b> <i>Title:</i> <b>Zoning Officer</b> <i>Department/Agency:</i> <b>Zoning Office / Washington Township</b> <i>Telephone:</i> <b>610-588-1524</b>	
<b>Project Location:</b> <i>800 block of Rutt Road</i>	
<b>Project Description</b> <i>(Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced:</i> <b>Installation of larger storm sewer pipes to carry the volume of water.</b> <b>Preventing the topping over of the upstream inlet during heavy rain events and washouts within Washington Township and the Borough of Bangor.</b> <b>This would reduce the potential of flooding of 35+ residential units and 3 business and eliminate extensive restoration by the Bangor Borough and Washington Township road crews.</b> <b>This will eliminate the flooding condition which requires closing of the road.</b> <b>Will reduce the need for Bangor Borough and Washington Township Road crews to place road closure signs and reduce the need for the Bangor Borough and Washington Township Police and Fire Departments from doing traffic control at this site.</b>	
<b>Lead Agency:</b> <i>Washington Township</i>	<b>Support Agencies:</b>
<b>Project Cost:</b> <i>High</i>	<b>Funding Source (if known):</b> <i>unknown</i>
<b>Timeline:</b> <i>DOF</i>	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years.    Long Term = 5 years or greater.    OG = On-going program.    DOF = Depending on funding.

## Mitigation Project Capture Sheet

<b>Contact Information:</b> <i>Name:</i> <b>Rick Weaver</b> <i>Title:</i> <b>Zoning Officer</b> <i>Department/Agency:</i> <b>Zoning Office / Washington Township</b> <i>Telephone:</i> <b>610-588-1524</b>	
<b>Project Location:</b> <i>1100 block of Mt Pleasant Road</i>	
<b>Project Description</b> <i>(Please include what will be done, what hazards it will mitigate, how it will mitigate those hazards and what losses will be reduced:</i> <b>Stream channel restoration.</b> <b>Will eliminate road flooding due to the stream flow diversion from previous storm events.</b> <b>Restoring all of the stream flow to the existing pipe under the roadway.</b> <b>This will eliminate the flooding condition which requires closing of the road.</b> <b>Will reduce the need for Township Road crew to place road closure signs and clean up and reduce the need for the Washington Township Police and Fire Departments from doing traffic control at this site.</b>	
<b>Lead Agency:</b> <i>Washington Township</i>	<b>Support Agencies:</b>
<b>Project Cost:</b> <i>High</i>	<b>Funding Source</b> <i>(if known): unknown</i>
<b>Timeline:</b> <i>DOF</i>	

### Costs:

If an estimated cost is known, please provide or use the following ranges:

Low = < \$10,000      Medium = \$10,000 to \$100,000      High = > \$100,000

If costs have not been estimated, please use the following:

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.

### Funding Source:

Please identify the anticipated funding source, which could be "Grant funding with local cost share".

### Timeline:

Short = 1 to 5 years. Long Term = 5 years or greater. OG = On-going program. DOF = Depending on funding.

**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: 1/30 2012

Municipality/Organization: Williams Township

County: Northampton

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 X Check here if you want access to the project SharePoint site

Name: Richard J. Adams

Title/Department: Zoning Officer/Building Code Administrator

Address: 655 Cider Press Road, William Twsp., Easton, PA 18042

Telephone: 610-258-0522

Fax: 610-258-6080

E-mail: radams@williamstwp.org

Contact #2 (optional) X Check here if you want access to the project SharePoint site

Name: Michael Strawn

Title/Department: Public Works Director

Address: 655 Cider Press Road, Williams Twsp., Easton, Pa 18042

Telephone: 610-258-0172

Fax: 610-258-6080

E-mail: Mstrawn@williamstwp.org

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

X E-mail                      Regular Mail                      Telephone



Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?

Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)

Severe stormwater/drainage hazards:

- 1) Drainage swale Royal Manor Road and traverses properties along and to the rear at Flafair and Young Streets. Severe erosion of homes and properties.
- 2) Drainage hazard on Belmont and Aspen Street. Two (2) feet deep water during minor storms.

Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.

- 1) Increasing incidences of sink holes.



## Evaluation of Identified Hazards and Risk

Name: Rich Adams

Title: ZoningOffice/BCO

Jurisdiction: Williams Township

### PART I

Identified Hazards 2006 HMP	How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?  <i>NC = No Change; I = Increase; D = Decrease</i>  <i>(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)</i>	Additional Comments
<b>Natural Hazards</b>		
Drought	NC	
Earthquake	I	
Extreme Temperature*	NC	
Flood, Flash Flood, Ice Jam	I	
Hailstorm*	NC	
Landslide*	NC	
Lightning Strike*	NC	
Radon Exposure*	NC	
Subsidence, Sinkhole	I	
Tornado, Wind storm*	NC	
Wildfire	NC	
Winter Storm	I	

*\*Hazard was considered low priority in the original HMP due to infrequency of occurrence or lack of data on occurrences or damages (landslides, lightning, wind, hail, extreme temperature and radon). The 2006 HMP noted this hazard may be studied in more detail during the plan update process.*



## PART II

### Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? (If so, please check the box)

#### *Natural*

- |   |  |
|---|--|
| <input type="checkbox"/> Avalanche/Glacier                                | <input type="checkbox"/> Invasive Species                |
| <input type="checkbox"/> Coastal Erosion                                  | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm                                 | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Expansive Soils                                  | <input type="checkbox"/> Volcano                         |
| <input checked="" type="checkbox"/> Hurricane, Tropical Storm, Nor'easter |  |

#### *Human-Made*

- |   |  |
|---|--|
| <input type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Nuclear Incident                |
| <input type="checkbox"/> Civil Disturbance              | <input type="checkbox"/> Terrorism                       |
| <input type="checkbox"/> Dam Failure                    | <input type="checkbox"/> Transportation Accidents        |
| <input type="checkbox"/> Disorientation                 | <input type="checkbox"/> Urban Fire and Explosion        |
| <input type="checkbox"/> Drowning                       | <input checked="" type="checkbox"/> Utility Interruption |
| <input type="checkbox"/> Environmental Hazards          | <input type="checkbox"/> War and Criminal Activity       |
| <input type="checkbox"/> Levee Failure                  |  |

### Other Comments



### Appendix 3: Capability Assessment Survey

Jurisdiction: Williams Township

Point of Contact Name and Title: Rich Adams/Zoning Off/BCO

Phone: 610-258-0522

Email: radams@williamstwp.org

1. **Planning and Regulatory Capability:** Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate it's estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
<i>EXAMPLE: Hazard Mitigation Plan</i>	X	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan			X				
Emergency Operations Plan	X	2010					
Disaster Recovery Plan							
Evacuation Plan							
Continuity of Operations Plan	X	2010					
NFIP							
NFIP – Community Rating System	X	2007					
Floodplain Regulations (spec. NFIP Flood Damage Prevention Ordinance)							
Floodplain Management Plan	X	2001					

# Appendix 3: Capability Assessment Survey

Tool / Program	Status			Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Change Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Development				
Zoning Regulations	X	1990					
Subdivision Regulations	X	1990					
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)	X	1990					
Open Space Management Plan (or Parks/Rec or Greenways Plan)							
Stormwater Management Plan / Ordinance	X	2010					
Natural Resource Protection Plan	X	2005					
Capital Improvement Plan	X	2009					
Economic Development Plan							
Historic Preservation Plan							
Farmland Preservation	X	2009					
Building Code	X	2003					
Fire Code	X	2003					
Firewise							
Storm Ready							
Other							

2. **Administrative and Technical Capability:** Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)		X		
Planners or engineers (with natural and/or human caused hazards knowledge)		X		
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)	X			
Emergency Manager	X		Public works	
NFIP Floodplain Administrator	X		ZONING OFFICER	
Land Surveyors		X		
Scientists or staff familiar with the hazards of the community		X		
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program		X		
Grant writers or fiscal staff to handle large/complex grants		X		
Staff with expertise or training in Benefit-Cost Analysis		X		
Other				



3. **Fiscal Capability:** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources *for hazard mitigation purposes* (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming	X		Township Manager	
Community Development Block Grants (CDBG)		X		
Special Purpose Taxes		X		
Gas / Electric Utility Fees		X		
Water / Sewer Fees	X		Township Secretary	
Stormwater Utility Fees		X		
Development Impact Fees		X		
General Obligation, Revenue, and/or Special Tax Bonds		X		
Partnering Arrangements or Intergovernmental Agreements		X		
Other		X		

4. **Community Political Capability:** Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing

←

0-Unwilling to Adopt Policies/Programs

3-Moderately Willing

Score: 3

5. **Self-Assessment of Capability:** Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability		X	
Administrative and Technical Capability		X	
Fiscal Capability		X	
Community Political Capability		X	
Community Resiliency Capability		X	

**LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE  
CONTACT AND MUNICIPAL INFORMATION SHEET**

Please complete and forward to (or call with questions!): Jonathan Raser  
Tetra Tech Inc., 1000 The American Road, Morris Plains, NJ 07950  
973-630-8042 Fax: 973-630-8304  
E-mail: [jonathan.raser@tetrattech.com](mailto:jonathan.raser@tetrattech.com)

Date: Nov. 17, 2011

Municipality/Organization: Wilson Borough

County: Northampton

Community/Organization contact(s) for Hazard Mitigation Planning (please list at least one):  
\*\*\*This individual(s) will receive correspondence such as meeting notifications and other updates and may be asked to provide additional information during the hazard mitigation planning process.\*\*\*

Contact #1 ☒ Check here if you want access to the project SharePoint site

Name: Joseph Sipel

Title/Department: EMC

Address: 2041 Butler St. Easton PA

Telephone: 610-533-7154

Fax: \_\_\_\_\_

E-mail: Fire24@rcw.com

Contact #2 (optional) \_\_\_\_\_ Check here if you want access to the project SharePoint site

Name: \_\_\_\_\_

Title/Department: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

What is the best way to provide the designated contact with notifications of upcoming meetings and other important information?

☒ E-mail ☐ Regular Mail ☐ Telephone



**Please identify any hazard problems and problem areas in your community. Where have you suffered damages/losses to natural hazards (structures, infrastructure, injury/loss of life)?**

None

**Please identify any mitigation projects/activities that have been completed, are planned, or ongoing in your community? (Examples: elevation or acquisition of floodprone structures, drainage improvements, levees or other flood control projects, planning or regulatory - ordinances)**

None

**Please identify any mitigation projects/activities that you think are appropriate to address the hazards your community faces.**

None

