



# MEETING NOTES

<b>Meeting</b>	Chester County Hazard Mitigation Plan (HMP) Planning Team Kickoff Meeting for Municipalities		
<b>Date</b>	March 13, 2020	<b>Time</b>	10:00 – 11:15 a.m.
<b>Location</b>	Webinar		
<b>Attendees</b>	Dave Sekkes, Geographic Information System (GIS) Database Administrator, Chester County Department of Emergency Services (DES)		
	Frank Sullivan, HazMat Chief, Chester County DES		
	Sean Barron, Emergency Management Agency (EMA) Representative, Caln Township		
	Chris Obenchain, Emergency Management Coordinator (EMC), Caln Township		
	Timothy Hubbard, EMC, Charlestown Township		
	Scott Piersol, Township Manager, East Brandywine Township		
	Unidentified Representative, East Coventry Township Police Department		
	Joe Heyman, Sergeant, East Pikeland Township Police Department		
	Loren Nafziger, EMC, East Whiteland Township		
	Barclay Hargreaves, EMC, Elverson Borough and West Nantmeal Township		
	Marclay Hargreaves, Emergency Management Staff, Elverson Borough and West Nantmeal Township		
	Chandler Matlock, Council Member, Honey Brook Borough		
	Unidentified Representative, Borough of Kennett Square		
	Eden Ratliff, Township Manager, Kennett Township		
	Aileen Parish, Supervisor, London Britain Township		
	Unidentified Representative, London Grove Township		
	Deborah Kinney, Secretary-Treasurer and Emergency Management Representative, Lower Oxford Township		
	David Flad, Emergency Coordinator, New London Township		
	Matthew Galamba, EMC, North Coventry Township		
	Jim Marks, Supervisor, North Coventry Township		
	Neil Vaughn, Manager, Parkesburg Borough		
	Michael Hochhaus, EMC, Pennsbury Township		
	Kathleen Howley, Township Manager, Pennsbury Township		
	Kevin Gosselin, EMC, Pocopson Township		
	James Fetterman, Chief, Schuylkill Township		
	Moujan Toloubadei, EMC, Schuylkill Township		
Renee Carey, Supervisor, South Coatesville Borough			
Ramsey Reiner, Manager, South Coatesville Borough			



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Lou DiGuiseppe, EMC, Spring City Borough
Judy Lizza, Township Manager, Deputy Zoning Officer, Treasurer, Open Records Officer, Thornbury Township
Matt Baumann, Assistant Township Manager, Tredyffrin Township
Jim Lucas, Codes Director and Fire Marshal, West Bradford Township
Jon Brill, EMC, West Chester Borough
Unidentified Representative, West Chester Borough Police Department
Joe Chico, Deputy EMC, West Pikeland Township
Ernie Holling, Supervisor, West Pikeland Township
Robert Pingar, Manager, Westtown Township
Don Verdiani, EMC, Westtown Township
Martin McKenzie, EMC, Willistown Township
Karen Flad, School Nurse, Avon Grove School District
Gina Guarino Buli, CEO, Renaissance Charter Academy
Stefanie Otley, Planner, Tetra Tech, Inc. (Tetra Tech)
Tony Subbio, Project Manager, Tetra Tech
Nine additional unidentified callers

## Discussion Points

This section summarizes each discussion point addressed during the Planning Team Kickoff Meeting For Municipalities. The meeting was held remotely because of the emerging COVID-19 pandemic. Because of the number of municipalities and additional stakeholders in Chester County, separate webinars were conducted for municipal officials and other stakeholders.

## Quick Introduction to Hazard Mitigation

Mr. Subbio provided a brief overview of hazard mitigation for attendees. He defined hazard mitigation, and reviewed types of mitigation actions. He described the requirements of the Disaster Mitigation Act of 2000 (DMA 2000) for HMPs, as well as Pennsylvania's requirements. He discussed the Federal Emergency Management Agency's (FEMA) mitigation grants. Finally, he reviewed statistics regarding the benefits of mitigation versus their costs.

## Planning Process

Mr. Subbio provided an overview of the HMP planning process, then described the steps in detail. This section summarizes the detailed description of each step.



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The first step involves identifying the hazards of concern for Chester County. The hazards of concern that will be analyzed in the HMP are as follows:

- Dam Failure
- Drought and Water Supply Deficiencies
- Earthquake
- Environmental Hazards
- Extreme Temperatures
- Floods, Flash Floods, and Ice Jams
- Hurricane and Tropical Storms
- Invasive Species
- Nuclear Incidents
- Opioid Epidemic
- Pandemic
- Pipeline Incidents
- Radon Exposure
- Structural Fires
- Terrorism
- Tornadoes and Windstorms
- Transportation Accidents
- Utility Failure
- Winter Storms

Hazards of concern are examined in the risk assessment process. After the risk assessment is complete, Tetra Tech and the county will conduct a Risk Assessment Review Meeting to collect feedback on the results.

Tetra Tech and the county will assess municipalities' and stakeholders' capabilities to implement hazard mitigation. These capabilities include plans, regulations, staff expertise, access to internal and external funding, training of key staff, and education and outreach.

Based on the risk assessment and capabilities assessment, plan participants will update the mitigation strategy. Municipalities and other stakeholders will identify mitigation actions they have taken over the last 5 years. The HMP Steering Committee will develop a set of mitigation goals and objectives for the updated HMP. Tetra Tech's planners will work with the County and other stakeholders to identify specific, implementable mitigation actions for inclusion in the updated plan. To that end, a Mitigation Strategy Workshop will be conducted to help participants identify solutions to the problems posed by hazards in the county.

Throughout this process, Tetra Tech will be developing the HMP document. The risk assessment, capabilities assessment, and mitigation strategy will each have their own sections of the HMP. Other sections of the HMP include an updated County Profile, describing the nature of the county and its population; the Planning Process, to document the steps that the County took to update the HMP; and the Plan Maintenance section, to document how the HMP will be reviewed and updated over its 5-year lifespan.

Mr. Subbio then describe the plan review and approval process. He noted that the Pennsylvania Emergency Management Agency (PEMA) usually requests only minor changes, but FEMA almost always asks for substantial changes based on best practices from other jurisdictions in FEMA Region III. Tetra Tech will update the HMP as necessary until it is granted "Approvable Pending Adoption"



# MEETING NOTES

(APA) status by FEMA. After that, Chester County and participating municipalities can adopt the HMP, which will be followed by formal approval of the HMP by FEMA.

## Review Schedule

Mr. Subbio reviewed the project schedule. The draft of the updated HMP will be complete by the end of June 2020, if information is provided to Tetra Tech in a timely manner.

## Introduce Worksheets

Mr. Subbio reviewed the following set of information-gathering worksheets that municipalities are asked to complete:

- Hazard Identification and Risk Evaluation Worksheet
- Capability Assessment Survey
- National Flood Insurance Program (NFIP) Survey
- Mitigation Strategy 5-Year Mitigation Plan Review for Countywide Actions
- Review of Municipality-Specific Mitigation Actions

## Next Steps

The following next steps were identified at the close of the meeting:

- Tetra Tech will conduct a Planning Team Kickoff Webinar for Other Stakeholders later today.
- Municipalities will send any relevant documents, reports, plans, etc. to the County or Mr. Subbio for review and incorporation into the HMP.
- Municipalities will complete the information-gathering worksheets.
- Tetra Tech will continue to update the hazard profiles.

The webinar concluded at 11:15 a.m.



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**Chester County  
Hazard Mitigation Plan (HMP)  
Update  
Planning Team Municipal  
Kickoff Meeting**

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**Agenda**

- Attendance
- Quick Intro to Hazard Mitigation
- Planning Process
- Review Schedule
- Introduce Worksheets
- Next Steps
- Questions

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**Attendance**

- Please post your name and organization in the Chat.

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**Quick Intro to Hazard Mitigation**

National Preparedness System: Mission Areas

Prevention

Protection

Mitigation

Response

Recovery

*Hazard Mitigation is any action taken to reduce or eliminate long-term risk to people and property from disasters.*

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**Quick Intro to Hazard Mitigation (Cont.)**

**Local Plans and Regulations**

- Updating building codes
- Integrating risk into Master Plans

**Education and Awareness Programs**

- Flood insurance information
- Know your risk! campaign

**Natural Systems Protection**

- Preserving natural floodplain functions
- Protecting well recharge areas

**Structure and Infrastructure Projects**

- Constructing a levee
- Elevating a house above the base flood level

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**Quick Intro to Hazard Mitigation (Cont.)**

- Disaster Mitigation Act of 2000
  - Risk assessment
  - Public outreach and participation
  - Process for update
  - Formal State and FEMA review
  - Documentation of acceptance by the community
- Hazard Mitigation Assistance

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## Quick Intro to Hazard Mitigation (Cont.)

Per FEMA's 2017 National Institute of Building Sciences report, mitigation saves \$\$\$ !

	National Benefit-Cost Ratio Per Peril <small>*BCR numbers in this study have been rounded</small>	Federally Funded
<b>Overall Hazard Benefit-Cost Ratio</b>		<b>6:1</b>
Riverine Flood		7:1
Hurricane Surge		Too few grants
Wind		5:1
Earthquake		3:1
Wildland-Urban Interface Fire		3:1



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## Quick Intro to Hazard Mitigation (Cont.)

Questions?



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## Planning Process

- Update the Risk Assessment
- Update the Capabilities Assessment
- Update the Mitigation Strategy
- Update Other Sections of the HMP
- Submit the HMP for Review
- Adopt the HMP
- Implement the HMP



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## Update the Risk Assessment

### ▪ Hazards of Concern

- |   |                      |                            |
|---|----------------------|----------------------------|
| • Dam Failure                           | • Invasive Species   | • Terrorism                |
| • Drought and Water Supply Deficiencies | • Nuclear Incidents  | • Tornadoes and Windstorms |
| • Earthquake                            | • Opioid Epidemic    | • Transportation Accidents |
| • Environmental Hazards                 | • Pandemic           | • Utility Failure          |
| • Extreme Temperatures                  | • Pipeline Incidents | • Winter Storms            |
| • Floods, Flash Floods, and Ice Jams    | • Radon Exposure     |                            |
| • Hurricane and Tropical Storms         | • Structural Fires   |                            |

- Risk Assessment Review Meeting



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## Update the Capabilities Assessment

- Capabilities
  - Planning and Regulatory Capability
  - Administrative and Technical Capability
  - Financial Capability
  - Education and Outreach
  - Self-Assessment of Capability



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## Update the Mitigation Strategy

- Review Goals and Objectives
- Determine Status of Mitigation Actions
- Identify New Mitigation Actions/Projects
  - *Focus on specific, implementable actions!*
- Conduct Mitigation Strategy Workshop



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### Update Other Sections of the HMP

- County Profile
  - Updated data
- Planning Process
  - Documentation of the update process
- Plan Maintenance
  - Incorporation into other plans as well as determining ways to incorporate other plans into the updated HMP



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### Submit the HMP for Review

- Review Draft with Planning Team
- 30-day Public Comment Period
- Conduct Public Meeting to Review the Draft
- Submit for Pennsylvania Emergency Management Agency (PEMA) Review
  - 14 to 28 days
- Submit for Federal Emergency Management Agency (FEMA) Review
  - 45 days
- “Approvable Pending Adoption” Status



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### Adopt the HMP

- County and at least one participating municipality
- FEMA Approval
- Adoption Deadline – December 2020



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### Implement the HMP

- Regular Planning Team Meetings
- Stakeholder Meetings
- Implement Mitigation Actions and Projects
  - Integrate actions where appropriate



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### Review Schedule

- Risk Assessment
  - February – May 2020
- Capabilities Assessment
  - February – June 2020
- Mitigation Strategy
  - February – June 2020
- Draft Plan by the end of June 2020
- Submit to PEMA by the end of July 2020
- Submit to FEMA by the middle of August 2020
- “Approvable Pending Adoption” by late October 2020



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### Introduce Worksheets

- Hazard Identification and Risk Evaluation Worksheet
- Capability Assessment Survey
- National Flood Insurance Program (NFIP) Survey
- Mitigation Strategy 5-Year Mitigation Plan Review



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## Next Steps

- Document Request
- Complete Municipal Worksheets
- Update the Risk Assessment



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## Questions?

Thank you for your time!



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## Contacts



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# AGENDA

## CHESTER COUNTY HAZARD MITIGATION PLAN UPDATE Planning Team Municipal Kickoff Meeting

Friday, March 13, 2020 | 10:00 a.m. – 12:00 p.m.

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1. Attendance

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2. Quick Intro to Hazard Mitigation

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3. Planning Process
  - a. Update the Risk Assessment
  - b. Update the Capabilities Assessment
  - c. Update the Mitigation Strategy
  - d. Update Other Sections of the HMP
  - e. Submit the HMP for Review
  - f. Adopt the HMP
  - g. Implement the HMP

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4. Review Schedule

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5. Introduce Worksheets

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6. Next Steps
  - a. Document Request
  - b. Complete Municipal Worksheets
  - c. Update the Risk Assessment

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7. Questions

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# Hazard Identification and Risk Evaluation Worksheet

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

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

## PART I

<b>Identified Hazards 2015 HMP</b>	<b>How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?</b>  <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>	<b>Additional Comments</b>
<b>Natural Hazards</b>		
Drought		
Earthquake		
Extreme Temperatures		
Flood, Flash Flood, and Ice Jam		
Hurricane and Tropical Storm		
Radon Exposure		
Thunderstorm		
Tornado and Windstorm		
Winter Storm		
<b>Human-made Hazards</b>		
Armed Attacks		
Civil Disturbance		
Conventional/Improvised Bombs		
Cyber Terrorism		
Dam Breaches		



<b>Identified Hazards 2015 HMP</b>	<b>How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?</b>  <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>	<b>Additional Comments</b>
Extended Utility, Data, or Telecomm Disruptions		
Fires		
Hazard Material Releases		
Nuclear Incidents		
Transportation Accidents		

**PART II**

**Other Hazards:**

Do any of the following 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(es) below.

***Natural***

- |  |  |
|--|--|
| <input type="checkbox"/> Avalanche/Glacier | <input type="checkbox"/> Lightning Strike                |
| <input type="checkbox"/> Coastal Erosion   | <input type="checkbox"/> Pandemic and Infectious Disease |
| <input type="checkbox"/> Dust, Sand Storm  | <input type="checkbox"/> Subsidence, Sinkhole            |
| <input type="checkbox"/> Expansive Soils   | <input type="checkbox"/> Tsunami                         |
| <input type="checkbox"/> Hailstorm         | <input type="checkbox"/> Wildfire                        |
| <input type="checkbox"/> Invasive Species  | <input type="checkbox"/> Volcano                         |
| <input type="checkbox"/> Landslide         |  |

***Human-Caused***

- |   |  |
|---|--|
| <input type="checkbox"/> Building or Structure Collapse | <input type="checkbox"/> Mass Food/Animal Feed Contamination |
| <input type="checkbox"/> Disorientation                 | <input type="checkbox"/> Terrorism                           |
| <input type="checkbox"/> Drowning                       | <input type="checkbox"/> Utility Interruption                |
| <input type="checkbox"/> Levee Failure                  | <input type="checkbox"/> War and Criminal Activity           |

**Additional Comments:**

## Capability Assessment Survey

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

Point of Contact Name and Title: \_\_\_\_\_

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

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

- 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 with the appropriate symbol (Supports, Neutral, or Hinders). Also indicate any change in the ability of the tool or program to affect loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tool / Program	Status			Dept./Agency Responsible	Comments
	In Place	Date Adopted or Updated	Under Development		
<i>EXAMPLE: Hazard Mitigation Plan</i>	X	1/1/2008		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					
Zoning Regulations					



Tool / Program	Status			Dept./Agency Responsible	Comments
	In Place	Date Adopted or Updated	Under Development		
Subdivision Regulations					
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					
Natural Resource Protection Plan					
Capital Improvement Plan					
Economic Development Plan					
Historic Preservation Plan					
Farmland Preservation					
Building Code					
Fire Code					
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 GIS and/or FEMA’s HAZUS program				
Grant writers or fiscal staff to handle large or complex grants				
Staff with expertise or training in benefit-cost analysis				
Other				

**3. Financial 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 or federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any additional 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. Education and Outreach:** Identify education and outreach programs and methods already in place that could be used to implement mitigation activities and communicate hazard-related information. Then, identify the primary department or agency responsible for its administration or allocation and provide any additional comments you may have in the space provided or with attachments.

Program/Organization	Yes	No	Department/Agency	Comments
Firewise Communities Certification				
StormReady certification				
Natural disaster or safety related school programs				
Ongoing public education or information program (e.g. responsible water use, fire safety, household preparedness, environmental education)				
Public-private partnership initiatives addressing disaster-related issues				
Local citizen groups or nonprofit organizations focused on environmental protection, emergency preparedness, access and functional needs populations, etc.				
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 on best available information and the responses provided in Sections 1-4 of this survey.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			
Administrative and Technical Capability			
Financial Capability			
Education and Outreach			

**NATIONAL FLOOD INSURANCE PROGRAM (NFIP) SURVEY**

**MUNICIPALITY:** \_\_\_\_\_

<b>1. FLOODPLAIN IDENTIFICATION AND MAPPING</b>			
<i>Requirement</i>	<i>Recommended Action</i>	<i>Yes/No</i>	<i>Comments</i>
a. Does the municipality maintain accessible copies of an effective Flood Insurance Rate Map (FIRM)/Digital Flood Insurance Rate Map (DFIRM)? Does the municipality maintain accessible copies of the most recent Flood Insurance Study (FIS)?	Place these documents in the local libraries or make available publicly.		
b. Has the municipality adopted the most current DFIRM/FIRM and FIS?	State the date of adoption, if approved.		
c. Does the municipality support requests for map updates?	If yes, specify how.		
d. Does the municipality share with Federal Emergency Management Agency (FEMA) any new technical or scientific data that could result in map revisions within 6 months of creation or identification of new data?	If yes, specify how.		
e. Does the municipality provide assistance with local floodplain determinations?	If yes, specify how.		
f. Does the municipality maintain a record of approved Letters of Map Change?	If yes, specify the responsible office.		



2. FLOODPLAIN MANAGEMENT			
<i>Requirement</i>	<i>Recommended Action</i>	<i>Yes/No</i>	<i>Comments</i>
a. Has the municipality adopted a compliant floodplain management ordinance that, at a minimum, regulates the following:	If yes, answer questions (1) through (4) below.		
(1) Does the municipality issue permits for all proposed development in the Special Flood Hazard Areas (SFHA)?	If yes, specify the office responsible.		
(2) Does the municipality obtain, review, and utilize any base flood elevation (BFE) and floodway data, and/or require BFE data for subdivision proposals and other development proposals larger than 50 lots or 5 acres?	If yes, specify the office responsible.		
(3) Does the municipality identify measures to keep all new and substantially improved construction reasonably safe from flooding to or above the BFE, including anchoring, using flood-resistant materials, and designing or locating utilities and service facilities to prevent water damage?	If yes, specify the office responsible.		
(4) Does the municipality document and maintain records of elevation data that document lowest floor elevation for new or substantially improved structures?	If yes, specify the office responsible.		
b. If a compliant floodplain ordinance was adopted, does the municipality enforce the ordinance by monitoring compliance and taking remedial action to correct violations?	If yes, specify how.		

**2. FLOODPLAIN MANAGEMENT**

<i>Requirement</i>	<i>Recommended Action</i>	<i>Yes/No</i>	<i>Comments</i>
c. Has the municipality considered adopting activities that extend beyond the minimum requirements? Examples include: <ul style="list-style-type: none"> <li>• Participation in the Community Rating System</li> <li>• Prohibition of production or storage of chemicals in SFHA</li> <li>• Prohibition of certain types of structures, such as hospitals, nursing homes, and jails in SFHA</li> <li>• Prohibition of certain types of residential housing (manufactured homes) in SFHA</li> <li>• Floodplain ordinances that prohibit any new residential or nonresidential structures in SFHA</li> </ul>	If yes, specify activities.		

**3. FLOOD INSURANCE**

<i>Requirement</i>	<i>Recommended Action</i>	<i>Yes/No</i>	<i>Comments</i>
a. Does the municipality educate community members about the availability and value of flood insurance?	If yes, specify how.		
b. Does the municipality inform community property owners about changes to the DFIRM/FIRM that would impact their insurance rates?	If yes, specify how.		
c. Does the municipality provide general assistance to community members regarding insurance issues?	If yes, specify how.		

## Mitigation Strategy 5-Year Mitigation Plan Review

Name: \_\_\_\_\_ Title: \_\_\_\_\_ Jurisdiction: \_\_\_\_\_

**Purpose:** To fulfill the requirement that maintenance of the hazard mitigation plan (HMP) has been completed since the publication of the original or previous version, and to obtain early feedback from the planning team to incorporate into the update process.

**Instructions:** Complete the *Goal and Objective Review Worksheet* and *Mitigation Action Plan Review Worksheet* on the next pages keeping the following questions in mind:

- Do the goals, objectives, and actions address current and expected conditions?
- Should each goal be carried forward into the updated plan? Should a goal be changed based on current conditions in the community? Should a goal be discontinued, and if so, why?
- What is the status of each action? What progress has been made? Should an action be continued in the updated plan? Should an action be discontinued, and if so, why?
- Has the nature or magnitude of hazard risk changed?
- Are current resources adequate to implement the plan?
- Should additional local resources be committed to address identified hazard threats?
- Are there any issues that have limited the current implementation schedule?
- Have the implementation of identified mitigation actions resulted in expected outcomes?
- Has the Steering Committee measured the effectiveness of completed hazard mitigation projects in terms of specific dollar losses avoided?
- Did the jurisdictions, agencies, and other partners participate in the plan implementation process as proposed?
- Are there other concerns that should be identified?

Before completing the worksheets, the group may wish to discuss the above questions in a round-robin format, using a flip chart. The questions are standard; however it is important to check the existing HMP maintenance section for additional questions that may need to be considered.

**Goal and Objective Review Worksheet**

**Instructions:** Write each goal and objective identified in the existing HMP. Use the comment boxes to provide feedback or to suggest modification of any of the proposed goals or objectives. You may suggest additional objectives below each goal, or new goals and objectives on the last page of this exercise.

Existing Goals and Objectives		Comments
Goal 1	Reduce the risk to public safety and public health	
Goal 2	Reduce personal and property disaster losses	
Goal 3	Increase disaster resilience of public and private infrastructure	



<b>Existing Goals and Objectives</b>		<b>Comments</b>
<b>Goal 4</b>	<b>Ensure that new replacement construction is hazard resistant and does not lead to increased hazard risk or exacerbate the effects of hazards</b>	
<b>Goal 5</b>	<b>Identify, encourage, and implement cost effective hazard mitigation measures</b>	
<b>Goal 6</b>	<b>Raise awareness of and encourage participation in hazard mitigation within the community</b>	





Suggested Additional Goals and/or Objectives		Comments
<b>Goal</b>		
<b>Objective</b>		
<b>Objective</b>		
<b>Objective</b>		
<b>Goal</b>		
<b>Objective</b>		
<b>Objective</b>		
<b>Objective</b>		



Goal		
Objective		
Objective		
Objective		

**Mitigation Action Plan Review Worksheet**

**Instructions:** List each mitigation action from the existing HMP and identify its status as “No Progress / Unknown, In Progress / Not Yet Complete, Continuous, Completed, or Discontinued.” Include review comments for each action.

Existing Mitigation Action	Status					Review Comments
	No Progress/ Unknown	In Progress/ Not Yet Complete	Continuous	Completed	Discontinued	
AH-1. Catalog critical facilities and infrastructure within the County						
AH-2. Upgrade and further develop the county-wide GIS database that incorporates county infrastructure, critical facilities, land use, and hazard zones						
AH-3. Adhere to statewide Uniform Construction Code for New Construction						
AH-4. Provide regular updates to the countywide Mass Care Plan						
AH-5. Increase mutual aid and interagency agreements to support preparedness, mitigation, and response activities in Chester County						
AH-6. Periodically review County response plans and response teams to ensure they meet the needs of the community						
AH-7. Promote and provide emergency management training opportunities						
AH-8. Arrange and hold hazard mitigation workshops for county residents						
AH-9. Maintain and foster communications with PEMA and FEMA region III-Mitigation Division						
AH-10. Examine federal funding opportunities at conference, workshops, and following disasters						
AH-11. Enhance the communications equipment between the County and the municipalities						



Existing Mitigation Action	Status					Review Comments
	No Progress/Unknown	In Progress/Not Yet Complete	Continuous	Completed	Discontinued	
AH-12. Enhance the County website to create a place to consolidate public information related to disaster response and recovery						
AH-13. Continue infrastructure improvements through community development						
AH-14. Continue to provide community outreach and education about emergency preparedness and actions to take during an emergency. Develop a branded public information campaign that could be used by multiple County Departments						
AH-15. Implement a system to report blocked/closed roads						
FC-16. Provide education to the municipalities on resident evacuation processes and need						
AH-17. Provide education to the municipalities on tracking road closures						
AH-18. Promote awareness of mental health services and resources throughout all the facilities within the County to include schools, workplaces, and healthcare facilities						
AH-19. Increase the involvement of mental health professionals in the Disaster Crisis Outreach Team (DCORT) and increase the network of mental health responders						
AH-20. Provide public information surrounding Radon hazard						
AH-21. Encourage municipalities to require radon testing at the time sale of homes						
TS-1. Educate municipalities on the importance of streetscape planning and vegetation control such as not planting trees under power lines						

Existing Mitigation Action	Status					Review Comments
	No Progress/Unknown	In Progress/Not Yet Complete	Continuous	Completed	Discontinued	
TS-2. Sustain tree management programs around power lines						
TS-3. Encourage new development planning to include burying of utility cables						
F-1. Include flood mitigation recommendations and NFIP program information in public education materials prepared by the Department of Emergency Services for Chester County						
F-2. Educate county residents on the NFIP following flood events						
F-3. Pursue local mitigation efforts to improve areas that are vulnerable to flooding including both repetitive and non-repetitive loss structures within floodplains						
F-4. Encourage upgrades and improvements to stormwater runoff capabilities when reconstructing roads						
F-5. Recommend that municipalities update flood ordinances after the update to the FEMA flood study and flood maps						
F-6. Follow state and County stormwater regulations						
F-7. Enforce floodplain management ordinances						
F-8. Implement the Act 167 Plan (Stormwater management)						
F-9. Manage integrity and functions of existing regional flood control facilities						
F-10. Maintain and provide municipalities with updated emergency action plans for high hazard dams						
F-11. Develop and implement a model natural conservation ordinance for municipal adoption						



Existing Mitigation Action	Status					Review Comments
	No Progress/Unknown	In Progress/Not Yet Complete	Continuous	Completed	Discontinued	
F-12. Continue to maintain the stream gauges						
F-13. Continue to maintain the stream gauges within the County						
F-14. Install stream gauges if an additional area is identified to benefit from one						
F-15. Provide education to the municipalities on flood gauges						
F-16. Install roadway gates to be closed off flood prone intersections/ roads during flood incidents and signage to warn motorists of the closed road						
F-17. Study traffic control boxes that would be exposed to riverine or stormwater flooding to determine if they are able to withstand the water						
F-18. When provided by FEMA, evaluate and apply FEMA non-regulatory electronic floodplain mapping and mitigation tools, where appropriate						
F-19. Encourage municipal Code Enforcement Officials to become trained in Floodplain Management and NFIP Programs						
F-20. Produce a map showing a relative frequency that roads/bridges throughout the county are subject to flooding to use for public outreach and education						
F-21. Work with the municipalities to develop a map of the stormwater system, including intakes and outflows						
F-22. As opportunities arise elevate, acquire properties within flood prone areas. In addition, wet and dry proof commercial structures if they cannot be elevated or acquired						

Existing Mitigation Action	Status					Review Comments
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WS-1. Provide public information on utility outages and the need to prepare for storms						
WS-2. Identify Snow Emergency Routes in all municipalities to increase clearing efforts and travel ability of residents						
WS-3. Improve storm drains throughout the County to handle snow melt						
WS-4. Plant bushes/other vegetation to stop drifting snow in known problem areas						
WS-5. Encourage municipalities to adopt an ordinance outlining the process and implement a declaration of a snow emergency						
TOR-1 Enhance the Household hazards waste program to reduce post event hazardous debris						
TOR-2. Develop a countywide Debris Management Plan						
TOR-3. Provide public information on debris management						
TOR-4. Retrofit critical public facilities with safe rooms						
D-1. Provide public information on the effects of droughts on public and private wells						
D-2. Promote sustainability programs and green practices throughout the County						

Existing Mitigation Action	Status					Review Comments
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D-3. Monitor and manage reservoirs and stream flows to sustain water sources needed to meet public water supply needs						
PG-1. Encourage security check of bags/coolers at public gathering						
PG-2. Plan for and implement strengthened security at public events						
PG-3. Utilize sheriff K-9 teams for pre-event facility screening at large events						
PG-4. Provide training for public leaders, coaches, referees on conflict de-escalation						
PG-5. Investigate the interaction of public agencies and camera data from private companies/citizens						
PG-6. Purchase temporary mobile camera to set up for events						
PG-7. Utilize temporary mobile camera during large events to monitor safety and security						
PG-8. Inform leaders of large events about the benefits of not providing alcohol at large events						
PG-9. Continue to train staff to respond to critical incidents and maintain the team of attorneys that is available for large incidents						
PG-10. Increase advanced planning through use of the incident action plan process						





Existing Mitigation Action	Status					Review Comments
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TRF-1. Work with the railroad industry to address safety concerns and aging rail infrastructure						
TRF-2. Provide ongoing cleaning and maintenance of roadways and road signage						
TRF-3. Utilize municipal and state mobile roadway signs (VMS signs) during emergency events						
TRF-4. Install back-up power sources for traffic signals (generator, battery, solar)						
TRF-5. Coordinate utilization of privately-owned digital billboards for emergency usages						
TRF-6. Through coordination, stagger traffic during delays/early releases for schools, government, and private sector during a disaster						
TRF-7. Provide public education on traffic accident reduction						
TRF-8. Provide public information on the PennDOT color coded detour routes installed around major routes within the County						
TRF-9. Continue to grow partnerships with public and private transit agencies to utilize their services during emergency situations						
TRF-10. Enforcement of traffic laws						
IL-1. Provide private sector education/outreach related to cyber security best practices						
IL-2. Conduct power assessment for critical infrastructure/key resources to determine emergency generator needs and coordinate information with the Army Corps of Engineers						



Existing Mitigation Action	Status					Review Comments
	No Progress/Unknown	In Progress/Not Yet Complete	Continuous	Completed	Discontinued	
IL-3. Purchase backup generators for critical infrastructure/key resources						
IL-4. Plan for replenishment fuel for generators						
IL-5. Conduct reviews of SARA site plans to ensure they are taking into consideration all of the critical facilities surrounding their site						
IL-6. Continue to engage the private sector to become involved in emergency preparedness						
IL-7. Continue to provide the County HazMat team tours of large SARA facilities within the county to maintain familiarization of facility layouts						