

Calvert County Hazard Mitigation Plan
Appendix C: Support Documentation

Appendix C: Support Documentation
Agendas

Calvert County Hazard Mitigation Plan Update Introduction Meeting Agenda

February 16, 2023 11:00 a.m.

CALL TO ORDER: Michael Rearick, MCM Consulting Group, Inc.

New Business:

Points of contact:

- Calvert County primary and secondary
- MCM: Adam Leister, Daniel Becker, Valerie Zents, Kristy Agosti and Michael Rearick

Composition of Planning Teams:

- Steering Committee
- Local Planning Team
- Municipalities

Project Schedule:

- Develop meeting occurrence schedule
- Identify timelines
 - Project Initiation
 - Invitation to Steering Committee and Local Planning Team

Discussion of MCM Consulting Group, Inc. Hazard Mitigation Process

- Review process

Reference Documentation:

- Maryland County Hazard Mitigation Plan
- Previous Calvert County Plans and Mechanisms (Comprehensive Plan, etc.)
- Shared Dropbox
- GIS Data Requests – Contact.

Invoicing Schedule

Next Meeting: Time and Date to be determined.

Calvert County Hazard Mitigation Plan Update Local Planning Team Kick-Off Meeting Agenda

March 15, 2023, 1:00 P.M.

CALL TO ORDER: Adam Leister, MCM Consulting Group, Inc.

Introductions:

Calvert County Dept. of Public Safety, Division of Emergency Management
MCM Consulting Group, Inc.
Local Planning Team

Business:

Local Planning Team:

- Roles and responsibilities

Project schedule review:

- Review the current schedule
- Determine times for meetings

Calvert County Hazard Mitigation Plan:

- Review of the current plan
- 2017 plan is available at on County site: <https://www.calvertcountymd.gov/3054/Hazard-Mitigation-Plan>
- Discuss the 2023 update process

Capability assessments:

- Discuss county and municipal capability assessment forms
- **DUE: April 31, 2023**

Risk assessment:

- Discuss county and municipal hazard identification and risk evaluation forms
- NFIP worksheet
- **DUE: April 31, 2023**

Other Planning Items

- Discuss shared Dropbox
- Discuss community preparedness survey

Next LPT meeting will be a virtual meeting (via Microsoft Teams) on April 5, 2023, at 1:00 p.m.

Calvert County Hazard Mitigation Plan Update Local Planning Team Meeting Agenda

April 5, 2023, 1:00 P.M.

CALL TO ORDER: Adam Leister, MCM Consulting Group, Inc.

Introductions (if needed):

Calvert County Dept. of Public Safety, Division of Emergency Management
MCM Consulting Group, Inc.
Local Planning Team

Business:

Project schedule review:

- Review the current schedule
- Determine any changes in project schedule

Risk Factor Assessment

- Review risk factor assessment items
 - Discuss items related to risk assessment
 - List of hazards for 2023 Hazard Mitigation Plan
- Review risk factor assessment tool

Mitigation Strategy

- Review mitigation strategy items

Other Planning Items

- Discuss SharePoint
- Discuss community preparedness survey

Next LPT meeting will be a virtual meeting (via Microsoft Teams) on April 19, 2023, at 1:00 p.m.

Calvert County Hazard Mitigation Plan Update Local Planning Team Meeting Agenda

April 19, 2023, 1:00 P.M.

CALL TO ORDER: Adam Leister, MCM Consulting Group, Inc.

Introductions (if needed):

Calvert County Dept. of Public Safety, Division of Emergency Management
MCM Consulting Group, Inc.
Local Planning Team

Business:

Project schedule review:

- Review the current schedule
- Determine any changes in project schedule
- Discuss public meetings

Continued Risk Factor Assessment

- Review risk factor assessment items
 - Discuss any completed RF Assessments
- Review risk factor assessment tool

Mitigation Strategy

- Review mitigation strategy items
- Review of the current mitigation strategy section
 - Goals, Objectives, and Actions
- Review of the current mitigation project opportunities
- Ideas for ongoing items that could be used for mitigation strategy
 - Goals, Objectives, and Actions

Other Planning Items

- Discuss SharePoint
- Discuss community preparedness survey
 - Results of county review for community preparedness survey

Next LPT meeting will be an ONSITE meeting (via Microsoft Teams) on May 3, 2023, at 1:00 p.m.

Calvert County
Hazard Mitigation Plan
Local Planning Team Meeting Agenda

May 3, 2023, 1:00 P.M.

Call to Order

Adam Leister, MCM Consulting Group, Inc.

Business

Project schedule review:

- Review the current schedule
- Determine any changes in project schedule

Risk Factor Assessment

- Discuss list of 2018 hazards
- Review new hazards for 2023 hazard mitigation plan
 - Risk factor assessment for each hazard
 - Hazard profile development and review by LPT:
 - Discuss the process for LPT review of drafts

Mitigation Strategy

- 2018 mitigation strategy goals and objectives review
 - 2018 mitigation actions review
 - 2018 project opportunities review

Other Planning Items

- Discuss community preparedness survey
 - Results of county review for community preparedness survey

Next LPT meeting will be an onsite meeting at the Calvert County Courthouse on May 4, 2023, at 9:00 a.m.

Calvert County
Hazard Mitigation Plan Update
Local Planning Team Meeting Agenda

May 4, 2023, 9:00 A.M.

Call to Order: Adam Leister, MCM Consulting Group, Inc.

Business:

Project schedule review

- Review the current schedule

Mitigation Strategy

- Mitigation project opportunity forms
 - Discussion on mitigation project opportunities
 - Discussion on ideas for mitigation project opportunities vs. actions

Other Planning Items

- Discuss community preparedness survey
 - Results of county review for community preparedness survey

Next LPT meeting will be a virtual meeting via MS Teams on May 17, 2023, at 1:00 p.m.

Calvert County
Hazard Mitigation Plan
Local Planning Team Meeting Agenda

May 17, 2023, 1:00 P.M.

Call to Order Adam Leister, MCM Consulting Group, Inc.

Business

Project schedule review

- Review the current schedule

Mitigation Strategy

- Mitigation goals and objectives
 - Discussion on drafted and revised goals and objectives for 2023
- Mitigation actions
 - Discussion on completed mitigation action review from Division of Emergency Management
- Mitigation project opportunities
 - Discussion on completed project opportunities
 - Project opportunities due: May 31, 2023

Other Discussion

The next LPT meeting will be an onsite meeting at the Calvert County Courthouse, Emergency Operations Center on June 14, 2023, at 1:00 p.m.

Calvert County
Hazard Mitigation Plan
Local Planning Team Meeting Agenda

June 14, 2023, 1:00 p.m.

Call to Order

Adam Leister, MCM Consulting Group, Inc.

Business

Project schedule review

- Review the current schedule

Mitigation strategy

- Mitigation actions
 - Development of 2023 mitigation action plan
- Mitigation project opportunities
 - Discussion on completed project opportunities
 - Project opportunities due no later than May 31, 2023
- Public meeting
 - Risk assessment public meeting

Other discussion

The next LPT meeting will be a virtual meeting via Microsoft Teams on June 21, 2023, at 1:00 p.m.

Calvert County
Hazard Mitigation Plan
Local Planning Team Meeting Agenda

June 21, 2023, 1:00 p.m.

Call to Order

Adam Leister, MCM Consulting Group, Inc.

Business

Project schedule review

- Review the current schedule

Mitigation strategy

- Mitigation actions
 - Development of 2023 mitigation action plan
 - Evaluation and prioritization of 2023 mitigation action plan
- Public meeting
 - Draft plan public meeting

Other discussion

The next LPT meeting will be an onsite meeting at the Calvert County Courthouse on July 19, 2023 at 1:00 p.m.

Calvert County
Hazard Mitigation Plan
Local Planning Team Meeting Agenda

July 19, 2023, 1:00 p.m.

Call to Order

Adam Leister, MCM Consulting Group, Inc.

Business

Project schedule review

- Review the current schedule

Mitigation strategy

- Mitigation actions
 - Evaluation and prioritization of 2023 mitigation action plan

Draft plan

- Status of remaining items for draft plan

Public meeting

- Draft plan public meeting

Other discussion

The next LPT meeting will be a virtual meeting via Microsoft Teams on August 17, 2023 at 1:00 p.m.

Calvert County
Hazard Mitigation Plan
Municipal Meeting Agenda

July 20, 2023, 10:00 a.m.

Call to Order

Adam Leister, MCM Consulting Group, Inc.

Business

Project schedule review

- Review the current schedule

Municipal worksheets and surveys

- Status of all worksheets and surveys

Mitigation strategy

- Municipal mitigation goals, objectives, and actions

Other discussion

No further municipal meeting occurrences.

Appendix C: Support Documentation
Capability Assessment Surveys

Hazard Mitigation Plan Guidance: Capability Assessment

JURISDICTION: _____

Planning and Regulatory:

Planning and regulatory capabilities are plans, policies, codes, and ordinances that prevent and reduce the impacts of hazards.

Plans and Policies

For each item, please indicate whether that item is in place, the title, the author or owner, the effective date, the next scheduled update, and any relation to Hazard Mitigation.

COMPREHENSIVE/MASTER LAND USE PLAN	Overall policy guide for future community growth and development.
Is this Plan/Policy in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Title:	
Author/Owner:	
Effective Date:	
Next Scheduled Update (if known):	
Relation to Hazard Mitigation:	

CONTINUITY OF OPERATIONS PLAN	A plan which allows an entity's essential functions to continue during an emergency situation or disaster.
Is this Plan/Policy in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Title:	
Author/Owner:	
Effective Date:	
Next Scheduled Update (if known):	
Relation to Hazard Mitigation:	

EMERGENCY OPERATIONS PLAN	Organizational procedures and processes to respond to and recover from an emergency.
Is this Plan/Policy in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Title:	
Author/Owner:	
Effective Date:	
Next Scheduled Update (if known):	
Relation to Hazard Mitigation:	

FLOOD MITIGATION PLAN	
Is this Plan/Policy in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Title:	
Author/Owner:	
Effective Date:	
Next Scheduled Update (if known):	
Relation to Hazard Mitigation:	

TRANSPORTATION PLAN	
Is this Plan/Policy in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Title:	
Author/Owner:	
Effective Date:	
Next Scheduled Update (if known):	
Relation to Hazard Mitigation:	

OPEN SPACE/PUBLIC RECREATION PLAN	
Is this Plan/Policy in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Title:	
Author/Owner:	
Effective Date:	
Next Scheduled Update (if known):	
Relation to Hazard Mitigation:	

DISASTER RECOVERY PLAN	
Is this Plan/Policy in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Title:	
Author/Owner:	
Effective Date:	
Next Scheduled Update (if known):	
Relation to Hazard Mitigation:	

STORMWATER MANAGEMENT PLAN	
Is this Plan/Policy in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Title:	

STORMWATER MANAGEMENT PLAN	
Author/Owner:	
Effective Date:	
Next Scheduled Update (if known):	
Relation to Hazard Mitigation:	

Codes and Ordinances

For each item, please indicate whether that item is in place, the title, the responsible agency, the effective date, the next scheduled update, and any relation to Hazard Mitigation.

BUILDING CODE	Minimum requirements that must be met in the construction and maintenance of buildings to ensure public health and safety.
Is this Code or Ordinance in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Name:	
Responsible Agency:	
Effective Date:	
Next Scheduled Update (if known):	
Relation to Hazard Mitigation:	

FLOODPLAIN MANAGEMENT ORDINANCE/NFIP COMPLIANCE	The minimum floodplain management regulations for compliance with the NFIP that must be met by participating communities once FEMA provides flood hazard information. This is to ensure participating communities consider flood hazards, to the extent that they are known, in all official actions relating to land management and use.
Is this Code or Ordinance in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Name:	
Responsible Agency:	
Effective Date:	
Next Scheduled Update (if known):	
Relation to Hazard Mitigation:	

SUBDISIVION DEVELOPMENT REVIEW ORDINANCE	
Is this Code or Ordinance in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Name:	
Responsible Agency:	
Effective Date:	

SUBDISIVION DEVELOPMENT REVIEW ORDINANCE	
Next Scheduled Update (if known):	
Relation to Hazard Mitigation:	

ZONING ORDINANCE	
Is this Code or Ordinance in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Name:	
Responsible Agency:	
Effective Date:	
Next Scheduled Update (if known):	
Relation to Hazard Mitigation:	

Administrative and Technical:

Administrative and technical capabilities include boards, commissions, departments, staff and consulting services, along with related skills and tools, that can be used for mitigation planning and the implementation of specific mitigation actions.

Administrative

For each item, please indicate whether that board, commission, or department is in place, the name of department, the point-of-contact, the meeting schedule, and any relation to Hazard Mitigation.

ENGINEERING DEPARTMENT	An in-house department providing civil engineering capability.
Is this Board, Commission, or Department in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Name:	
Point-of-contact:	
Meeting Schedule:	
Relation to Hazard Mitigation:	

CODE ENFORCEMENT DEPARTMENT	An in-house department responsible for evaluating private properties and public grounds against local codes.
Is this Board, Commission, or Department in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Name:	
Point-of-contact:	
Meeting Schedule:	

CODE ENFORCEMENT DEPARTMENT	An in-house department responsible for evaluating private properties and public grounds against local codes.
Relation to Hazard Mitigation:	

EMERGENCY MANAGEMENT DEPARTMENT/AGENCY	An in-house department providing emergency management capabilities.
Is this Board, Commission, or Department in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Name:	
Point-of-contact:	
Meeting Schedule:	
Relation to Hazard Mitigation:	

Technical

For each item, please indicate whether that staff or position is in place, if that individual is full time or part time, the title, the current position holder, the length of employment in this position, and any relation to Hazard Mitigation.

CHIEF BUILDING OFFICER	The in-house or contracted code enforcement staff responsible for evaluating private properties and public grounds against local codes, answering citizen questions about the codes, and issuing citations for code violations.
Is this Staff Position in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Full Time or Part Time:	
Title:	
Current Position Holder:	
Length of Employment in this Position:	
Relation to Hazard Mitigation:	

CIVIL ENGINEER - CONSTRUCTION PROJECT MANAGEMENT	The in-house or contracted engineering staff responsible for managing construction projects and meeting budget and schedule constraints.
Is this Staff Position in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Full Time or Part Time:	
Title:	
Current Position Holder:	
Length of Employment in this Position:	
Relation to Hazard Mitigation:	

CIVIL ENGINEER - CONSTRUCTION PROJECT MANAGEMENT	The in-house or contracted engineering staff responsible for managing construction projects and meeting budget and schedule constraints.

GRANT ADMINISTRATOR	The in-house or contracted staff familiar with and capable of successfully handling FEMA Hazard Mitigation Assistance (HMA) grant program requirements consistent with the Code of Federal Regulations, as well as non-FEMA funding sources.
Is this Staff Position in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Full Time or Part Time:	
Title:	
Current Position Holder:	
Length of Employment in this Position:	
Relation to Hazard Mitigation:	

GRANT WRITER	The in-house or contracted staff familiar with and capable of successfully applying for FEMA HMA grants, as well as non-FEMA funding sources.
Is this Staff Position in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Full Time or Part Time:	
Title:	
Current Position Holder:	
Length of Employment in this Position:	
Relation to Hazard Mitigation:	

FLOODPLAIN MANAGER	The in-house or contracted staff familiar with and capable of providing floodplain management expertise and relevant information.
Is this Staff Position in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Full Time or Part Time:	
Title:	
Current Position Holder:	
Length of Employment in this Position:	
Relation to Hazard Mitigation:	

Financial:

Financial capabilities include access to, or eligibility to use, funding resources for hazard mitigation.

For each item, please indicate whether there is access to, and/or eligibility for, this funding, the name of that funding resource, the responsible agency or organization for allocation of that funding resource, and any relation to Hazard Mitigation.

CAPITAL IMPROVEMENTS PROGRAM	A short-range plan, usually 4 to 10 years, which identifies capital projects and equipment purchases, provides a planning schedule and identifies options for financing the plan.
Is there access to and/or eligibility for this funding resource?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Name:	
Responsible Agency/Organization:	
Relation to Hazard Mitigation:	

FUNDING PROGRAMS – FEDERAL (NON-FEMA)	Grant programs administered by Federal agencies other than FEMA with potential to fund mitigation actions. For example, the U.S. Department of Housing and Urban Development Community Development Block Grants, U.S. Department of Energy, and the U.S. Department of Transportation, etc.
Is there access to and/or eligibility for this funding resource?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Name:	
Responsible Agency/Organization:	
Relation to Hazard Mitigation:	

UTILITY FEES FOR STORMWATER, WATER, SEWER, GAS, OR ELECTRIC SERVICES	Fee levied by the jurisdiction, in addition to cost of service provided, for use in funding related capital programs, such as non-Federal shares for mitigation actions.
Is there access to and/or eligibility for this funding resource?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Name:	
Responsible Agency/Organization:	
Relation to Hazard Mitigation:	

Education and Outreach:

Education and outreach capabilities include programs and methods already in place that could be used to support implementation of mitigation actions and communicate hazard-related information.

For each item, please indicate if that program, or method, is in place, the name of the program or method, the responsible agency or organization, and the relation to Hazard Mitigation.

STORMREADY CERTIFICATION	National Weather Service program that helps arm America's communities with communication and safety skills needed to save lives and property, before, during and after an event.
Is this program/method in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Name:	
Responsible Agency/Organization:	
Relation to Hazard Mitigation:	

SEASONAL EMERGENCY MANAGEMENT AND MITIGATION OUTREACH	Seasonal outreach. For example, in advance of hurricane season or in anticipation of winter weather, including information regarding preparedness and mitigation measures that individuals can undertake for their own risk reduction.
Is this program/method in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> IDK (See Attachment A)
Name:	
Responsible Agency/Organization:	
Relation to Hazard Mitigation:	

Community Political Capability: Political capability, in this instance, is 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 1 to 5. Generally, a higher score corresponds to a higher degree of community political capability.



Score: _____

Appendix C: Support Documentation
Hazard Identification and Risk Evaluation
Worksheets

2023 Calvert County Hazard Identification and Risk Evaluation Worksheet

Municipality or Organization:

The following natural and human-caused hazards were identified and profiled in the 2017 Calvert County Hazard Mitigation Plan. In the center column, identify how the frequency of occurrence, magnitude of impact and geographic extent has changed in your municipality since the plan update by placing NC: No Change; I: Increase or D: Decrease. If Increase or Decrease is identified, please explain why in the *Comments* column.

<i>2017 Calvert County Hazard Mitigation Plan Hazards</i>	NC=No Change, I=Increase, D=Decrease	<i>Comments (Please Print)</i>
Natural Hazards		
Drought/Extreme Heat		
Earthquakes		
Erosion		
Flood		
Hail		
Hurricanes and Coastal Storms		
Landslides		
Severe Thunderstorms		
Sinkholes		

2023 Calvert County Hazard Identification and Risk Evaluation Worksheet

2017 Calvert County Hazard Mitigation Plan Hazards	NC=No Change, I=Increase, D=Decrease	Comments (Please Print)
Tornadoes		
Winter Storms and Freezes		
Human-Caused Hazards		
Dam/Levee Failure		
Energy Pipeline Failures		
Hazardous Materials (HazMat)		
Terrorism		

2023 Calvert County Hazard Identification and Risk Evaluation Worksheet

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, check box)

- Cyberterrorism*
- Blighted Properties*
- Disorientation*
- Emergency Services*
- Flash Flood*
- Ice Jam Flood*
- Opioid Epidemic*
- Transportation Accidents*
- Other:** _____

Please return by April 31, 2023, to:

Calvert County Department of Public Safety, Division of Emergency Management
Hazard Mitigation Plan Update

175 Main St, Prince Frederick, MD 20678

Or

Email: ALeister@mcmconsultinggrp.com

Email: DBecker@mcmconsultinggrp.com

Appendix C: Support Documentation
National Flood Insurance Program Surveys

NATIONAL FLOOD INSURANCE PROGRAM (NFIP) SURVEY

MUNICIPALITY: _____

1. FLOODPLAIN IDENTIFICATION AND MAPPING			
<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 request for map updates?	If yes, state 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 (SFHAs)?	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.		
c. Does the community participate in the Community Rating System?	If yes, specify how.		

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

**Appendix C: Support
Documentation Project
Opportunities**

CALVERT COUNTY
HAZARD MITIGATION PROJECT OPPORTUNITY FORM

Please Print Clearly

DATE: _____ NAME OF PROJECT: _____

MUNICIPALITY: _____

PROJECT CONTACT NAME & TITLE: _____

LOCATION (address) OF PROJECT: _____

Latitude: _____ Longitude: _____

TAX PARCEL NUMBER: _____

Is the property within the 100 yr flood plain? _____

BRIEF DESCRIPTION OF PROBLEM TO BE SOLVED:

DESCRIPTION OF PROJECT:

TOTAL ESTIMATED COST: _____

SOURCE OF FUNDING FOR NON-FEDERAL SHARE:

Municipality Ranking Score _____

CALVERT COUNTY
HAZARD MITIGATION PROJECT OPPORTUNITY FORM

Please Print Clearly

DATE: _____ NAME OF PROJECT: _____

MUNICIPALITY: _____

PROJECT CONTACT NAME & TITLE: _____

LOCATION (address) OF PROJECT: _____

Latitude: _____ Longitude: _____

TAX PARCEL NUMBER: _____

Is the property within the 100 yr flood plain? _____

BRIEF DESCRIPTION OF PROBLEM TO BE SOLVED:

DESCRIPTION OF PROJECT:

TOTAL ESTIMATED COST: _____

SOURCE OF FUNDING FOR NON-FEDERAL SHARE:

Municipality Ranking Score _____

CALVERT COUNTY
HAZARD MITIGATION PROJECT OPPORTUNITY FORM

Please Print Clearly

DATE: _____ NAME OF PROJECT: _____

MUNICIPALITY: _____

PROJECT CONTACT NAME & TITLE: _____

LOCATION (address) OF PROJECT: _____

Latitude: _____ Longitude: _____

TAX PARCEL NUMBER: _____

Is the property within the 100 yr flood plain? _____

BRIEF DESCRIPTION OF PROBLEM TO BE SOLVED:

DESCRIPTION OF PROJECT:

TOTAL ESTIMATED COST: _____

SOURCE OF FUNDING FOR NON-FEDERAL SHARE:

Municipality Ranking Score _____

CALVERT COUNTY
HAZARD MITIGATION PROJECT OPPORTUNITY FORM

Please Print Clearly

DATE: _____ NAME OF PROJECT: _____

MUNICIPALITY: _____

PROJECT CONTACT NAME & TITLE: _____

LOCATION (address) OF PROJECT: _____

Latitude: _____ Longitude: _____

TAX PARCEL NUMBER: _____

Is the property within the 100 yr flood plain? _____

BRIEF DESCRIPTION OF PROBLEM TO BE SOLVED:

DESCRIPTION OF PROJECT:

TOTAL ESTIMATED COST: _____

SOURCE OF FUNDING FOR NON-FEDERAL SHARE:

Municipality Ranking Score _____

CALVERT COUNTY
HAZARD MITIGATION PROJECT OPPORTUNITY FORM

Please Print Clearly

DATE: _____ NAME OF PROJECT: _____

MUNICIPALITY: _____

PROJECT CONTACT NAME & TITLE: _____

LOCATION (address) OF PROJECT: _____

Latitude: _____ Longitude: _____

TAX PARCEL NUMBER: _____

Is the property within the 100 yr flood plain? _____

BRIEF DESCRIPTION OF PROBLEM TO BE SOLVED:

DESCRIPTION OF PROJECT:

TOTAL ESTIMATED COST: _____

SOURCE OF FUNDING FOR NON-FEDERAL SHARE:

Municipality Ranking Score _____

CALVERT COUNTY
HAZARD MITIGATION PROJECT OPPORTUNITY FORM

Please Print Clearly

DATE: _____ NAME OF PROJECT: _____

MUNICIPALITY: _____

PROJECT CONTACT NAME & TITLE: _____

LOCATION (address) OF PROJECT: _____

Latitude: _____ Longitude: _____

TAX PARCEL NUMBER: _____

Is the property within the 100 yr flood plain? _____

BRIEF DESCRIPTION OF PROBLEM TO BE SOLVED:

DESCRIPTION OF PROJECT:

TOTAL ESTIMATED COST: _____

SOURCE OF FUNDING FOR NON-FEDERAL SHARE:

Municipality Ranking Score _____

CALVERT COUNTY
HAZARD MITIGATION PROJECT OPPORTUNITY FORM

Please Print Clearly

DATE: _____ NAME OF PROJECT: _____

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TOTAL ESTIMATED COST: _____

SOURCE OF FUNDING FOR NON-FEDERAL SHARE:

Municipality Ranking Score _____

**Appendix C: Support Documentation
Presentations**

MCM Consulting Group Inc.

Calvert County Hazard Mitigation Plan Update

Risk Assessment Section
Public Meeting
June 14, 2023

MCMConsultingGrp.com Office: 328 Innovation Blvd, Suite 210, State College, Pa 16803

1

MCM Consulting Group Inc.

Agenda

- What is Hazard Mitigation Planning
- Review the update process
- Risk Assessment Section
- Next Steps
- Conclusion

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MCM Consulting Group Inc.

Why is a Hazard Mitigation Plan necessary?

- Disaster Mitigation Act of 2000 (DMA 2000) which amended the Robert T. Stafford Disaster Relief and Emergency Assistance Act (the Stafford Act), requires **all local jurisdictions** to have a mitigation plan in order to receive certain types of disaster assistance and hazard mitigation funding.

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Current Hazard Mitigation Plan

- Adopted and promulgated by Calvert County Commissioners
- Municipality adoption of the Calvert County plan
- Used as support for pre-disaster and/or post-disaster funding since promulgation

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MCM Consulting Group Inc.

2023 Hazard Mitigation Plan update

- Required to be updated every 5 years
- Update process is continuous
- All plans are reviewed annually:
 - County reviews all mitigation actions
 - Municipalities provide progress reports on project opportunities
 - Capture any major emergency or disaster information
- Annual progress reports are required by MDEM

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5

MCM Consulting Group Inc.

2023 Hazard Mitigation Plan update

- Calvert County Hazard Mitigation grant
- Hired MCM Consulting Group, Inc.
 - Kick-off meeting was (February 16th, 2023)
- Local Planning Team developed
 - Kick-off meeting on (March 16th, 2023)
- Update process
 - Capabilities assessment
 - Risk assessment
 - Mitigation strategy develop
 - Draft plan

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6

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2023 Hazard Mitigation Plan update

- Municipality involvement:
 - Complete surveys and assessments:
 - Capability assessment survey
 - Hazard identification worksheet
 - Mitigation opportunity form
 - Provide input into the draft plan
 - Participate in meetings
 - Adopt the County plan as the municipal plan

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7

MCM Consulting Group Inc.

2023 Hazard Mitigation Plan Update

- Public involvement:
 - Identify hazard areas in your municipality
 - Participate in surveys and assessments
 - Provide input into the draft plan
 - Participate in meetings
 - Hazard mitigation plan website:
<https://www.calvertcountymd.gov/3053/Hazard-Mitigation>

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Risk Assessment Review

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9

MCM Consulting Group Inc.

Identifying Hazards

Element B: Risk Assessment Requirements

B1. Does the plan include a description of the type, location and extent of all natural hazards that can affect the jurisdiction? Does the plan also include information on previous occurrences of hazard events and on the probability of future hazard events? (Requirement 44 CFR § 201.6(c)(2)(i))

Source: FEMA, 2023

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Identifying Hazards

- Note and document past presidential, gubernatorial, county and municipal disaster declarations
 - Tropical storms: Tropical Storm Isaias (February 2021)
 - COVID-19: January 2020 (Presidential), March 2020 (Gubernatorial)
 - Develop a list of natural and human-caused hazards
 - Review previous hazards in current plan
 - Coastal erosion, drought, earthquake, extreme temperature, flooding, hurricane/tropical storm, hail, landslides/sinkholes, tornado, wildfire, winter storms
 - Identify new hazards
 - Emergency services, opioid epidemic, utility interruptions
 - Use a hazard identification and risk evaluation worksheet:
 - Municipality worksheet completed by municipalities
 - County worksheet completed by the local planning team

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11

MCM Consulting Group Inc.

Profiling Hazards

B1-a. The plan must include a description of all natural hazards that can affect the jurisdiction(s) in the planning area and their assets, such as dams, located outside of the planning area. This requirement may be met with either a narrative description or definition.

The plan must provide the rationale if omitting any natural hazards that are commonly recognized to affect the participant(s) in the planning area. There is no prescribed method for explaining the omission, but the plan must demonstrate the lack of risk to the participant(s) that omits the hazard.

Source: FEMA, 2023

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12

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Profiling Hazards

- Identify the location and geographic extent
 - Mapping utilized
 - Local knowledge
- Define the range and magnitude
 - Use of scales or measuring tools
 - Defines intensity and impact
- Past occurrences
 - Dates
 - Impact

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MCM Consulting Group Inc.

Profiling Hazards

- Establish probability of future occurrences
 - Based on past occurrence frequency
 - Special flood hazard area (Previously 100-year flood data)
- Determine environmental impacts
 - Flooding causes polluted streams
 - Tornado causes scattering of debris over large areas
 - Droughts kill crops and trees

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14

MCM Consulting Group Inc.

Assessing Vulnerability

- Inventory and summarize vulnerable assets:
 - Existing buildings
 - Community lifeline facilities (MDEM/FEMA)
 - New development
 - Hazardous material facilities
 - Utility systems
- Utilize GIS data

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15

MCM Consulting Group Inc.

Assessing Vulnerability

- Review high risk groups
 - Elderly (aged 65 years and older)
 - Children (under the age of 5)
 - Special needs
- Flooding hazards
 - Utilize flood insurance rate maps
 - Develop maps with critical facilities, community lifelines, and impacted structures

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16

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Assessing Vulnerability

- Estimate loss
 - Determine potential dollar loss estimates for hazards:
 - Flooding
 - Building losses
 - Business interruption losses
 - HAZUS-MH software from FEMA

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17

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Assessing Vulnerability

- Develop risk factor for hazards
 - Utilize a risk factor tool (next slide)
 - Relies on historical data
 - Relies on local planning team knowledge
 - 2023 Calvert County risk factor results on the following slide

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18

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Summary of Risk Factor Approach Used to Rank Hazard Risk.

RISK ASSESSMENT CATEGORY	LEVEL	DEGREE OF RISK		WEIGHT VALUE
		CRITERIA	INDEX	
PROBABILITY POSSIBLE Remote (low probability of occurrence)	VERY LOW	LESS THAN 1% ANNUAL PROBABILITY	1	10%
	LOW	DEFERRED TO 1% ANNUAL PROBABILITY	2	
	MEDIUM	DEFERRED TO 1% ANNUAL PROBABILITY	3	
	MODERATELY HIGH	10% ANNUAL PROBABILITY	4	
IMPACT Minor (minor to moderate damage)	LIMITED	VERY LOW	1	10%
		LOW	2	
	MODERATE	MODERATE	3	
		SEVERE	4	
CATASTROPHIC Major (major to catastrophic damage)	MODERATE	MODERATE	3	10%
		SEVERE	4	
	SEVERE	SEVERE	3	
		EXTREME	4	
FREQUENCY Rare (once in 100 years or less)	VERY RARE	LESS THAN 1% OF AREA AFFECTED	1	10%
	RARE	DEFERRED TO 1% OF AREA AFFECTED	2	
	MODERATE	DEFERRED TO 1% OF AREA AFFECTED	3	
	COMMON	DEFERRED TO 1% OF AREA AFFECTED	4	
WARNING TIME Short (minutes to hours)	VERY SHORT	SELF-DEFERRED	1	10%
	SHORT	SELF-DEFERRED	2	
	MODERATE	SELF-DEFERRED	3	
	LONG	SELF-DEFERRED	4	
RELOCATION Not required (no relocation needed)	VERY EASY	SELF-DEFERRED	1	10%
	EASY	SELF-DEFERRED	2	
	MODERATE	SELF-DEFERRED	3	
	DIFFICULT	SELF-DEFERRED	4	

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19

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Hazard	Probability	Impact	Spatial Extent	Warning Time	Duration	Risk Index
Emergency Services	4	3	4	1	4	2.4
Pandemic, Epidemic, Endemic, and Infectious Disease	4	2	4	1	4	2.2
Operational Explosions	3	3	4	1	4	2.1
Extreme Temperatures	4	2	4	1	3	2
Winter Storm	3	3	4	1	3	2
Landslide (Including Cliff Erosion)	4	3	2	4	1	2
Coastal Erosion (Excluding Cliffs)	4	2	3	1	4	2.3
Hurricane and Tropical Storm	2	4	4	1	2	2.5
Radio Exposure	4	2	3	1	4	2.5
Drought	3	2	4	1	4	2.2
Invasive Species	4	1	4	1	4	2.5
Land Subsidence	4	1	4	1	4	2.5
Environmental Hazards (Transportation)	2	3	3	4	3	2.2
Chemical Spills	4	2	2	4	2	2.5
Utility Interruptions	3	2	3	4	3	2.5
Flooding (100 Year)	2	3	4	1	2	2.2
Terrains	3	2	2	4	2	2.5
Transportation Accidents	4	2	1	4	1	2.4
Tornado and Windstorms	3	2	3	2	1	2.4
Environmental Hazards (Toxic Facilities)	4	1	1	4	2	2.2
Flash Flooding	2	2	3	3	1	2.2
Hail	2	2	3	3	1	2.2
Nuclear Incidents	1	2	3	3	3	2.1
Nuisance Flooding	4	1	1	1	1	1.5
Earthquake	1	1	4	4	1	1.5
Wildfire	2	1	1	4	1	1.5
Civil Disturbance	1	1	1	4	1	1.5
Dam Failure	1	1	1	4	1	1.5

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20

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Next Steps

- Mitigation strategy section: 07/05/2023
- Draft the hazard mitigation plan: 07/05/2023
- Public comment period: 07/19/2023 to 08/17/2023
- Draft submission to MDEM: 08/21/2023
- Draft submission to FEMA: 09/21/2023
- County and municipality adoption: 11/06/2023

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21

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Questions?

Thank You

Adam Leister
MCM Consulting Group, Inc.
aleister@mcmconsultinggrp.com

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22

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Calvert County Hazard Mitigation Plan Update

Draft Hazard Mitigation Plan
Public Meeting
July 19th, 2023

MCMConsultingGrp.com Office: 328 Innovation Blvd, Suite 210, State College, Pa 16803

1

MCM Consulting Group Inc.

Agenda

- What is hazard mitigation planning
- Review the update process
- Risk assessment section
- Capability assessment section
- Mitigation strategy section
- Next steps
- Conclusion

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Why is a Hazard Mitigation Plan necessary?

- Disaster Mitigation Act of 2000 (DMA 2000) which amended the Robert T. Stafford Disaster Relief and Emergency Assistance Act (the Stafford Act), requires **all local jurisdictions** to have a mitigation plan in order to receive certain types of disaster assistance and hazard mitigation funding.

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Current Hazard Mitigation Plan

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2023 Hazard Mitigation Plan Update

- Required to be updated every 5 years
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- All plans are reviewed annually:
 - County reviews all mitigation actions.
 - Municipalities provide progress reports on project opportunities.
 - Capture any major emergency or disaster information.
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2023 Hazard Mitigation Plan Update

- Calvert County Hazard Mitigation grant
- Hired MCM Consulting Group, Inc.
 - Kick-off meeting was (February 16th, 2023)
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 - Draft plan

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2023 Hazard Mitigation Plan Update

- Municipality involvement:
 - Complete surveys and assessments:
 - Capability assessment survey
 - Hazard identification worksheet
 - Mitigation opportunity form
 - Provide input into the draft plan.
 - Participate in meetings.
 - Adopt the county plan as the municipal plan.

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2023 Hazard Mitigation Plan Update

- Public involvement:
 - Identify hazard areas in your municipality.
 - Participate in surveys and assessments.
 - Provide input into the draft plan.
 - Participate in meetings.
 - Hazard mitigation plan website:
 - <https://www.calvertcountymd.gov/3053/Hazard-Mitigation>

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Risk Assessment Review

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MCM Consulting Group Inc.

Identifying Hazards

Element B: Risk Assessment Requirements

B1. Does the plan include a description of the type, location and extent of all natural hazards that can affect the jurisdiction? Does the plan also include information on previous occurrences of hazard events and on the probability of future hazard events? (Requirement 44 CFR § 201.6(c)(2)(i))

Source: FEMA, 2023

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Identifying Hazards

- Note and document past presidential, gubernatorial, county and municipal disaster declarations
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 - Use a hazard identification and risk evaluation worksheet:
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Profiling Hazards

B1-a. The plan must include a description of all natural hazards that can affect the jurisdiction(s) in the planning area and their assets, such as dams, located outside of the planning area. This requirement may be met with either a narrative description or definition.

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Source: FEMA, 2023

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Profiling Hazards

- Identify the location and geographic extent
 - Mapping utilized
 - Local knowledge
- Define the range and magnitude
 - Use of scales or measuring tools
 - Defines intensity and impact
- Past occurrences
 - Dates
 - Impact

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Profiling Hazards

- Establish probability of future occurrences
 - Based on past occurrence frequency
 - Special flood hazard area (previously 100-year flood data)
- Determine environmental impacts
 - Flooding causes polluted streams
 - Tornado causes scattering of debris over large areas
 - Droughts kill crops and trees

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14

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Assessing Vulnerability

- Inventory and summarize vulnerable assets:
 - Existing buildings
 - Critical facilities
 - New development
 - Hazardous material facilities
 - Utility systems
- Utilize GIS data

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Assessing Vulnerability

- Review high risk groups
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 - Utilize flood insurance rate maps
 - Develop maps with critical facilities and impacted structures

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16

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Assessing Vulnerability

- Estimate loss
 - Determine potential dollar loss estimates for hazards:
 - Flooding
 - Building losses
 - Business interruption losses
 - Total loss
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17

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Assessing Vulnerability

- Develop risk factor for hazards
 - Utilize a risk factor tool (next slide)
 - Relies on historical data
 - Relies on local planning team knowledge

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18

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Summary of Risk Factor Approach Used to Rank Hazard Risk.

RISK ASSESSMENT CATEGORY	LEVEL	CRITERIA	POINTS	WEIGHT VALUE
PROBABILITY (Based on frequency of occurrence)	VERY LOW	LESS THAN 1% ANNUAL PROBABILITY	1	10%
	POSSIBLE	DEFERRED TO 1% ANNUAL PROBABILITY	2	
	MODERATELY LIKELY	DEFERRED TO 1% ANNUAL PROBABILITY	3	
IMPACT (Based on severity of consequences)	VERY LOW	THE RISK FROM THIS HAZARD IS LIMITED TO LOCAL COMMUNITIES AND IS NOT LIKELY TO AFFECT THE STATE OR FEDERAL GOVERNMENT OR OTHER FEDERAL AGENCIES	1	10%
	LIMITED	THE RISK FROM THIS HAZARD IS LIMITED TO LOCAL COMMUNITIES AND IS NOT LIKELY TO AFFECT THE STATE OR FEDERAL GOVERNMENT OR OTHER FEDERAL AGENCIES	2	
	MODERATE	THE RISK FROM THIS HAZARD IS LIMITED TO LOCAL COMMUNITIES AND IS NOT LIKELY TO AFFECT THE STATE OR FEDERAL GOVERNMENT OR OTHER FEDERAL AGENCIES	3	
CATASTROPHIC (Based on severity of consequences)	VERY LOW	THE RISK FROM THIS HAZARD IS LIMITED TO LOCAL COMMUNITIES AND IS NOT LIKELY TO AFFECT THE STATE OR FEDERAL GOVERNMENT OR OTHER FEDERAL AGENCIES	1	10%
	LIMITED	THE RISK FROM THIS HAZARD IS LIMITED TO LOCAL COMMUNITIES AND IS NOT LIKELY TO AFFECT THE STATE OR FEDERAL GOVERNMENT OR OTHER FEDERAL AGENCIES	2	
	MODERATE	THE RISK FROM THIS HAZARD IS LIMITED TO LOCAL COMMUNITIES AND IS NOT LIKELY TO AFFECT THE STATE OR FEDERAL GOVERNMENT OR OTHER FEDERAL AGENCIES	3	
RECOVERY (Based on time to return to normal operations)	VERY LOW	LESS THAN 1 YEAR TO RETURN TO NORMAL OPERATIONS	1	10%
	MODERATE	DEFERRED TO 1 YEAR TO RETURN TO NORMAL OPERATIONS	2	
	LONG	DEFERRED TO 1 YEAR TO RETURN TO NORMAL OPERATIONS	3	
WARNING TIME (Based on time to evacuate or take other protective actions)	VERY LOW	SELF-DEFERRED	1	10%
	POSSIBLE	SELF-DEFERRED	2	
	MODERATE	SELF-DEFERRED	3	
EVACUATION (Based on time to evacuate or take other protective actions)	VERY LOW	SELF-DEFERRED	1	10%
	POSSIBLE	SELF-DEFERRED	2	
	MODERATE	SELF-DEFERRED	3	

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19

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Hazard	Probability	Impact	Spatial Extent	Warning Time	Duration	RISK INDEX
Emergency Services	4	3	4	1	4	2.4
Pandemic, Epidemic, Endemic, and Infectious Disease	4	2	4	1	4	2.2
Operational	3	3	4	1	4	2.4
Extreme Temperatures	4	2	4	1	3	2
Winter Storm	3	3	4	1	3	2
Landslide (Including Cliff Erosion)	4	3	2	4	1	2.8
Coastal Erosion (Excluding Cliffs)	4	2	3	1	4	2.2
Hurricane and Tropical Storm	2	4	4	1	2	1.8
Radiation Exposure	4	2	3	1	4	2.2
Drought	3	2	4	1	4	2.2
Aviation - Specific	4	1	4	1	4	1.8
Land Subsidence	4	1	4	1	4	1.8
Environmental Hazards (Transportation)	2	3	3	4	3	2.2
Cyberterrorism	4	2	2	4	2	2.2
Utility Interruptions	3	2	3	4	3	2.2
Flooding (100 Year)	2	3	4	1	2	2.2
Terrorism	3	2	2	4	2	2.2
Transportation Accidents	4	2	1	4	1	2.2
Tornado and Windstorms	3	2	3	2	1	2.4
Environmental Hazards (Toxic Facilities)	4	1	1	4	2	2.2
Flash Flooding	2	2	3	3	1	2.2
Hail	2	2	3	3	1	2.2
Nuclear Incidents	1	2	3	3	3	2.1
Nuclide Flooding	4	1	1	1	1	1.8
Earthquake	1	1	4	4	1	1.8
Wildfire	2	1	1	4	1	1.8
Civil Disturbance	1	1	1	4	1	1.8
Dam Failure	1	1	1	4	1	1.8

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20

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Capabilities Assessment

- Assessed the county and municipalities
- Capability assessment forms provided.
- Assessed the following:
 - Planning and regulatory capability
 - Administrative and technical capability
 - Fiscal capability
 - Community political capability
- Capability assessment information is in section 5 of the 2023 Calvert County Hazard Mitigation Plan.

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21

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Mitigation Strategy Review

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Mitigation Strategy Review

C1. Does the plan document each jurisdiction's existing authorities, policies, programs and resources and its ability to expand on and improve these existing policies and programs? (Requirement 44 CFR § 201.6(c)(3))

Source: FEMA, 2023

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23

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Goals and Objectives Review

What is a goal?
A general guideline that describes what your community would like to achieve.

What is an objective?
Defines strategies that must be implemented to achieve the goals. Objectives are specific and measurable.

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24

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Mitigation Actions

C4. Does the plan identify and analyze a comprehensive range of specific mitigation actions and projects for each jurisdiction being considered to reduce the effects of hazards, with emphasis on new and existing buildings and infrastructure? (Requirement 44 CFR § 201.6(c)(3)(ii))

Source: FEMA, 2023

What is a mitigation action?
An action is more specific than an objective and should address previously identified objectives.

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25

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Mitigation Actions

- 2023 Mitigation actions:
 - 67 actions updated or developed.
 - Renumbered and evaluated all action numbers.
 - Located in section 6 of the mitigation plan.

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26

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Mitigation Actions

- 2023 Mitigation action plan:
 - Identifies a mitigation strategy and plan for future.
 - Identifies the following:
 - Category
 - Hazard vulnerability
 - Benefit/cost prioritization
 - Schedule
 - Funding
 - Responsibility

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27

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Mitigation Project Opportunities

- 2023 Mitigation opportunities:
 - 12 mitigation opportunities from
 - Information is in appendix G of the hazard mitigation plan

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28

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Next Steps

- Available for public comment: 07/26/2023 – 08/25/2023
 - Digital copies will be available at Calvert County website.
 - All public comments **MUST** be submitted in writing to the Calvert County Division of Emergency Management at: Kara.Buckmaster@calvertcountymd.gov
 - Or
 - Submit via SurveyMonkey at: <https://www.surveymonkey.com/r/Calvert-PublicComment>
- Draft submit to MDEM
- FEMA review and approval pending adoption after MDEM
- County and municipality adoption

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29

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Questions?

Thank You

Adam Leister
MCM Consulting Group, Inc.
aleister@mcmconsultinggrp.com

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30

Appendix C: Support Documentation
Sign In Sheets

SIGN IN SHEET
 Calvert County HMP Update
 Local Plan Team Meeting (VIRTUAL)
 April 5, 2023 – 1 p.m.

DATE & TIME	NAME (PLEASE PRINT)	JOB TITLE	MUNICIPALITY/ORGANIZATION	EMAIL
04/05/23	Marcia Barben	Hazard Mitigation Project Officer	Maryland Department of Emergency Management	
04/05/23	Jacquelyn Culver	Special Projects Manager	Calvert County Department of Community Resources	
04/05/23	Crystal Dowd	Acting Public Safety Director	Calvert County	
04/05/23	Brian Ficke		Calvert Cliffs Nuclear Power Plant	
04/05/23	Michael Grierson	Acting Deputy Director	Calvert County Emergency Management Division	
04/05/23	Brooke Hebb	Program Manager	Calvert County Department of Environmental Health	
04/05/23	Ronald Marney	Environmental Planning Regulator		
04/05/23	Amalia Pleake-Tamm	Environmental Planner III	Calvert County Department of Planning and Zoning	
04/05/23	Jenny Plummer-Welker	AICP Long Range Planner	Calvert County Department of Planning and Zoning	
04/05/23	Kat Poff	CISO/Deputy Director	Calvert County Department of Technology Services	
04/05/23	Lionell Sewell	GIS Supervisor	Calvert County Department of Technology Services	
04/05/23	Sheebah Smith	Deputy Director	Calvert County Economic Development	
04/05/23	Christopher Sperling	Historic Preservation Planner	Calvert County Department of Planning and Zoning	
04/05/23	Amanda Stillwagon	Park and Safety Division Chief	Calvert County Parks and Recreation	

SIGN IN SHEET
Calvert County HMP Update
Local Plan Team Meeting (VIRTUAL)
April 5, 2023 – 1 p.m.

DATE & TIME	NAME (PLEASE PRINT)	JOB TITLE	MUNICIPALITY/ORGANIZATION	EMAIL
04/05/23	Carolyn Sunderland	AICP, Deputy Director	Calvert County Department of Planning and Zoning	
04/05/23	Holly Wahl	Town Administrator	Chesapeake Beach	
04/05/23	Shafraz Zain	Senior Hazard Mitigation Project Officer	Maryland Department of Emergency Management	

SIGN IN SHEET
 Calvert County HMP Update
 Local Plan Team Meeting (VIRTUAL)
 April 19, 2023 – 1 p.m.

DATE & TIME	NAME (PLEASE PRINT)	JOB TITLE	MUNICIPALITY/ORGANIZATION	EMAIL
04/19/2023	Marcia Barben	Hazard Mitigation Project Officer	Maryland Department of Emergency Management	
04/19/2023	Kara Buckmaster	Acting Division Chief	Calvert County Division of Emergency Management	
04/19/2023	Jacquelyn Culver	Special Projects Manager	Calvert County Department of Community Resources	
04/19/2023	Crystal Dowd	Acting Public Safety Director	Calvert County	
04/19/2023	Brian Ficke	Senior Emergency Preparedness Analyst	Calvert Cliffs Nuclear Power Plant	
04/19/2023	Michael Grierson	Acting Deputy Director	Calvert County Emergency Management Division	
04/19/2023	Tom Litke	Director of Development	Town of North Beach	
04/19/2023	Kathleen Lockwood	Planner II	Calvert County Long Range Planning	
04/19/2023	Ronald Marney	Environmental Planning Regulator	Calvert County Department of Planning and Zoning	
04/19/2023	Jennifer Moreland	Director	Calvert County Community Resources	
04/19/2023	Julianne Oberg	Director	Calvert County Economic Development	
04/19/2023	Stacy O'Donnell	Mitigation Specialist	Calvert County Division of Emergency Management	
04/19/2023	Amalia Pleake-Tamm	Environmental Planner III	Calvert County Department of Planning and Zoning	
04/19/2023	Jenny Plummer-Welker	AICP Long Range Planner	Calvert County Department of Planning and Zoning	
04/19/2023	Kathryn Poff	CISO/Deputy Director	Calvert County Department of Technology Services	

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 Calvert County HMP Update
 Local Plan Team Meeting (VIRTUAL)
 April 19, 2023 – 1 p.m.

DATE & TIME	NAME (PLEASE PRINT)	JOB TITLE	MUNICIPALITY/ORGANIZATION	EMAIL
04/19/2023	Colton Pounsberry			
04/19/2023	Christopher Sperling	Historic Preservation Planner	Calvert County Department of Planning and Zoning	
04/19/2023	Amanda Stillwagon	Park and Safety Division Chief	Calvert County Parks and Recreation	
04/19/2023	Tamara Wallace-Blake	Planning Commission Administrator	Calvert County Planning and Zoning	
04/19/2023	Geoffrey Westbrook	CSCD District Manager	Calvert County	
04/19/2023	Daniel Becker	Consultant	MCM Consulting Group, Inc.	
04/19/2023	Adam Leister	Senior GIS Consultant	MCM Consulting Group, Inc.	
04/19/2023	Valerie Zents	Senior Consultant	MCM Consulting Group, Inc.	

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 Calvert County HMP Update
 Local Plan Team Meeting
 May 3, 2023 – 1 p.m.

DATE & TIME	NAME (PLEASE PRINT)	JOB TITLE	MUNICIPALITY/ORGANIZATION	EMAIL
5/3/23	Mike Grierson	Depth Dir Public Safety	Calvert Govt.	michael.grierson@calvertcountymd.gov
5/3/23	Colton Pounsberry	EM analyst	Calvert Govt	Colton.Pounsberry@calvertcountymd.gov
5/3/23	Stacy O'Donnell	EM mitigation Spec.	Calvert Govt	stacy.odonnell@calvertcountymd.gov
05/03	Kara Buckmaster		CCG EM	Kara.buckmaster@calvertcountymd.gov
"	Tom Lithe		North Beach	tlithe@commenaresidence.org
05/3/23	AMALIA PEARCE-TAMM	Env. Planner	Planning & Zoning	a -
5/3/23	GEOFF WESTBROOK	CSCD Dist. Manager	CALVERT	GROFFREY.WESTBROOK@ " "
5/3/23	Ron Marney	Env. Planning Regulator	Calvert	ronald.marney@calvertcountymd.gov
3 MAY 2023	Bob Brantam	Deputy Dir Parks/Rec	Calvert	robert.brantam@ " " "
5/3/23	Kat Poff	Dep. Director	Calvert	Kathryn.poff@ " " "
"	CHRIS SPERLUNG	Planner III	CALVERT	CHRISTOPHER.SPERLUNG@ " "
"	Calvin Strozier	GIS Analyst	Calvert	joseph.strozier@calvertcountymd.gov

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 Calvert County HMP Update
 Local Plan Team Meeting (VIRTUAL)
 June 21, 2023 – 1 p.m.

DATE & TIME	NAME (PLEASE PRINT)	JOB TITLE	MUNICIPALITY/ORGANIZATION	EMAIL
05/17/2023	Kara Buckmaster	Acting Division Chief	Calvert County Division of Emergency Management	
05/17/2023	Jacquelyn Culver	Special Projects Manager	Calvert County Department of Community Resources	
05/17/2023	Michael Grierson	Acting Deputy Director	Calvert County Emergency Management Division	
05/17/2023	Brooke Hebb	LEHS	Environmental Health	
05/17/2023	Ronald Marney	Environmental Planning Regulator	Calvert County Department of Planning and Zoning	
05/17/2023	Jennifer Moreland	Director	Calvert County Community Resources	
05/17/2023	Julianne Oberg	Director	Calvert County Economic Development	
05/17/2023	Stacy O'Donnell	Mitigation Specialist	Calvert County Division of Emergency Management	
05/17/2023	Amalia Pleake-Tamm	Environmental Planner III	Calvert County Department of Planning and Zoning	
05/17/2023	Kathryn Poff	CISO/Deputy Director	Calvert County Department of Technology Services	
05/17/2023	Colton Pounsberry	Emergency Management Analyst	Calvert County Division of Emergency Management	
05/17/2023	Lionell Sewell	GIS Supervisor	Calvert County Department of Technology Services	
05/17/2023	Christopher Sperling	Historic Preservation Planner	Calvert County Department of Planning and Zoning	
05/17/2023	Amanda Stillwagon	Park and Safety Division Chief	Calvert County Parks and Recreation	
05/17/2023	Calvin Strozier	GIS Analyst	Calvert County	

SIGN IN SHEET
 Calvert County HMP Update
 Local Plan Team Meeting (VIRTUAL)
 June 21, 2023 – 1 p.m.

DATE & TIME	NAME (PLEASE PRINT)	JOB TITLE	MUNICIPALITY/ORGANIZATION	EMAIL
05/17/2023	Carolyn Sunderland	Deputy Director	Calvert County Planning and Zoning	
05/17/2023	Tamara Wallace-Blake	Planning Commission Administrator	Calvert County Planning and Zoning	
05/17/2023	Geoffrey Westbrook	CSCD District Manager	Calvert County	
05/17/2023	Adam Leister	Senior GIS Consultant	MCM Consulting Group, Inc.	
05/17/2023	Valerie Zents	Senior Consultant	MCM Consulting Group, Inc.	

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 Calvert County HMP Update
 Local Plan Team Meeting (VIRTUAL)
 June 21, 2023 – 1 p.m.

DATE & TIME	NAME (PLEASE PRINT)	JOB TITLE	MUNICIPALITY/ORGANIZATION	EMAIL
6/21/2023	Marcia Barben	Hazard Mitigation Project Officer	MDEM	
06/21/2023	Kara Buckmaster	Acting Division Chief	Calvert County Division of Emergency Management	
06/21/2023	Brian Ficke		Calvert Cliffs	
06/21/2023	Michael Grierson	Acting Deputy Director	Calvert County Emergency Management Division	
06/21/2023	Ronald Marney	Environmental Planning Regulator	Calvert County Department of Planning and Zoning	
06/21/2023	Stacy Milor		Town of North Beach	
06/21/2023	Julianne Oberg	Director	Calvert County Economic Development	
06/21/2023	Stacy O'Donnell	Mitigation Specialist	Calvert County Division of Emergency Management	
06/21/2023	Amalia Pleake-Tamm	Environmental Planner III	Calvert County Department of Planning and Zoning	
06/21/2023	Kathryn Poff	CISO/Deputy Director	Calvert County Department of Technology Services	
06/21/2023	Colton Pounsberry	Emergency Management Analyst	Calvert County Division of Emergency Management	
06/21/2023	Amanda Stillwagon	Park and Safety Division Chief	Calvert County Parks and Recreation	
06/21/2023	Calvin Strozier	GIS Analyst	Calvert County	
06/21/2023	Geoffrey Westbrook	CSCD District Manager	Calvert County	
06/21/2023	Shafraz Zain		MDEM	
06/21/2023	Adam Leister	Senior GIS Consultant	MCM Consulting Group, Inc.	
06/21/2023	Michael Rearick	Director of Operations	MCM Consulting Group, Inc.	

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 Calvert County HMP Update
 LPT Meeting
 July 19, 2023 – 1 p.m.

DATE & TIME	NAME (PLEASE PRINT)	JOB TITLE	MUNICIPALITY/ORGANIZATION	EMAIL
07/19/2023	Marcia Barben	Hazard Mitigation Project Officer	MDEM	
07/19/2023	Kara Buckmaster	Acting Division Chief	Calvert County Division of Emergency Management	
07/19/2023	Jacquelyn Culver	Special Projects Manager	Calvert County Department of Community Resources	
07/19/2023	Michael Grierson	Deputy Director of Public Safety	Calvert County Division of Emergency Management	
07/19/2023	Tom Litke	Director of Development	Town of North Beach	
07/19/2023	Stacy O'Donnell	Mitigation Specialist	Calvert County Division of Emergency Management	
07/19/2023	Amalia Pleake-Tamm	Environmental Planner	Calvert County Planning and Zoning	
07/19/2023	Kathryn Poff	Deputy Director	Calvert County	
07/19/2023	Sheebah Smith	Deputy Director	Calvert County Economic Development	
07/19/2023	Christopher Sperling	Planner III	Calvert County	
07/19/2023	Calvin Strozier	GIS Analyst	Calvert County	
07/19/2023	Tamara Wallace-Blake	Planning Commission Administrator	Calvert County Planning and Zoning	
07/19/2023	Geoffrey Westbrook	CSCD District Manager	Calvert County	
07/19/2023	Adam Leister	Senior GIS Consultant	MCM Consulting Group, Inc.	
07/19/2023	Michael Rearick	Director of Operations	MCM Consulting Group, Inc.	