2016 All-Hazards Mitigation Plan and Flood Mitigation Plan Update
Calvert County, MD

Public Meeting
28 November 2016

Presented by:
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Dr. Michael Scott, ESRGC, Salisbury University
Project Purpose

To update the all-hazards mitigation plan and flood mitigation plan to improve Calvert County’s resistance to natural hazards, including flooding, by identifying actions to reduce the impact of various hazards to people and property.
Key Players

- Calvert County Staff – Emergency Management, Community Planning and Building, GIS, etc.
- Hazard/Flood Mitigation Plan Steering Committee
- Municipalities
- Consultants
  - Deepa Srinivasan, President, Vision Planning & Consulting
  - Dr. Mike Scott, ESRGC- Salisbury University
- Public
- Maryland Emergency Management Agency (MEMA)
- Federal Emergency Management Agency (FEMA R3)
Steps in the Planning Process

1. Reconvene 2009 Steering Committee and develop planning process (meetings)
2. Assess hazards, risks, vulnerability
3. Assess municipal capabilities
   - Existing Plans, Programs, Policies – Capability questionnaire
   - Plan Integration – Document Reviews
   - Local Codes and Zoning Ordinances
   - Current and Proposed Projects
4. Develop goals and objectives and mitigation actions
   - Preventative Measures
   - Projects
   - Natural Resource Protection
   - Outreach and Communication
   - Other Mitigation Actions
Steps in the Planning Process (cont’d)

5. Write mitigation plan and prioritize projects (using Evaluation Criteria)
   - Social
   - Technical/Administrative
   - Economic

6. Develop implementation plan
   - Priorities for Mitigation Actions
     - Short-, Medium-, or Long-Range
     - Potential Funding Sources
     - Responsible Entities
     - Target Completion Dates
   - Five-Year Plan Maintenance Cycle
Steering Committee Meetings

4 Steering Committee Meetings

Meeting 1: October 2016
- Planning process, schedule, deliverables
- Goals and objectives
Meeting 2: November 2016
- Mitigation Actions
Meeting 3: November 2016
- Hazard identification and risk assessment
Meeting 4: January 2017
- Mitigation actions prioritization
- Implementation strategy
Public Meetings

- Public Meeting 1 (Nov 2016)
  - Planning process, hazard identification, risk assessment
  - Goals and objectives

- Public Meeting 2 (Jan 2016)
  - Mitigation actions and projects
  - Prioritization criteria for mitigation projects
Prevention

Goal 1: Direct population concentrations away from known or predicted high flood hazard areas through appropriate regulations.

- Address hazard mitigation goals through existing plans and ordinances.
- Continue to examine the zoning ordinance, and include language to ensure that any new development does not increase the vulnerability to flooding and make changes if required.
- Continue to ensure that the current building codes, floodplain ordinances, wetland protection, and erosion and sediment control standards are properly enforced.
**Goals and Objectives**

**Flood Mitigation Plan**

*Prevention* - cont.

- Continue to implement a multi-objective management approach that promotes public involvement & coordination of floodplain management with other community concerns such as economic development, housing, water quality, and recreation.
- Ensure continued coordination and notification procedures between departments within the County and municipalities that are responsible for implementing flood mitigation activities.
- Develop recommendations for wetlands, buffer zones, etc. in municipal ordinances.
Goals and Objectives
Flood Mitigation Plan

**Property Protection**

Goal 2: *Ensure new construction and reconstruction is resistant to flood damage.*

- Encourage owners of high-risk, pre-FIRM residential structures to use retrofitting techniques to avoid repeated flooding.
- Support projects and programs to retrofit, relocate/acquire structures that are susceptible to repetitive flooding.
- Continue to emphasize the importance of flood insurance to residents through CRS and other efforts.

**Natural Resource Protection**

Goal 3: *Protect natural resources and open-space within the floodplain and watersheds.*

- Ensure all acquired properties are cleared of all structures, returned to their natural state, and remain in public ownership in perpetuity.
Goals and Objectives

Flood Mitigation Plan

Emergency Services

Goal 4: Ensure continued coordination during emergencies.
- Continue to evaluate coordination, notification, and response procedures.

Goal 5: Ensure critical facilities are less vulnerable to flooding.
- Identify appropriate mitigation techniques for critical facilities in the floodplain currently and in the long term.

Structural Projects

Goal 6: Reduce potential disruption of the County’s critical infrastructure during hazard events.
- Ensure regular maintenance of the County’s critical infrastructure within the 100-year floodplain.
- Identify vulnerable existing critical facilities and infrastructure and encourage pre-disaster retrofit.
Goal 1: Minimize future losses from all disasters by reducing the risk to people and property.

- Protect populations and properties in Calvert County susceptible to economic or physical loss from disasters consistent with the standards established in this Plan and the current Calvert County Comprehensive Plan.

- Provide protection of critical facilities/infrastructure vital to disaster response, such as fire and police, and those vital to the continuous operations of the county, such as hospitals and health care facilities, water and sewer facilities, electrical and other utility, and transportation systems.
Goal 2: Support a balance between government regulation & enforcement, and personal awareness/responsibility for hazard mitigation, by emphasizing education and training for property owners, families and individuals.

- Continue to develop and support disaster preparedness education and awareness programs, targeting specific benefits to residents, visitors, businesses, and elected officials.

- Continue to develop economic incentive programs for both public and private sectors promoting benefits of structural retrofitting.
Goal 3: Minimize losses and institute adequate regulations through proper land use regulations.

- Develop and support public and private projects and programs to retrofit, relocate, or acquire properties susceptible to repetitive flooding.
- Require systematic maintenance programs for stormwater management systems.
- Discourage new development in high hazard areas through appropriate regulations and land use planning.
Goal 4: Reduce economic vulnerability and increase recovery capabilities of business and industry.

- Continue public education through collaborative programs with government, businesses and community organizations through seminars and online resources.

Goal 5: Emphasize pre- and post-disaster planning to decrease vulnerability of existing and new construction to loss.

- Promote to elected officials, builders, and existing and potential homeowners, the economic and safety benefits of designing mitigation features into new construction and retrofit of existing structures.

- Identify vulnerable existing critical facilities and infrastructure and encourage pre-disaster retrofit.
Goal 6: Define the benefits of hazard mitigation principles through public education.

- Educate the public on higher standards of protection to structures and facilities from hazards.

- Identify and coordinate public information programs and events such as contests and festivals with public and private partners.

- Identify and seek multiple funding sources that will support hazard mitigation awareness and training programs.

Goal 7: Ensure hazard mitigation goals are consistent with existing County plans and ordinances.

- Incorporate hazard mitigation principles into new and existing plans and ordinances.
Plan Integration

Small Area Plans
- Cove Point Community Flood Mitigation Plan
- Broomes Island Flood Mitigation Plan
- Breezy Point/Neeld Estate Flood Mitigation Plan

County Plans and Ordinances
- Calvert County Floodplain Regulations
- Calvert County Soil and Erosion Control Regulations
- Calvert County Road Ordinance
- Calvert County Stormwater Management Ordinance
Schedule

Flood Mitigation Plan
- Hazard Identification and Vulnerability Assessment – October and November 2016
- Mitigation Strategy – November and December 2016
- Implementation Plan – January 2017
- Deliverables to County – January 2017

Hazard Mitigation Plan
- Hazard Identification and Vulnerability Assessment – October and November 2016
- Mitigation Strategy – November 2016 through February 2017
- Deliverables to County – May - June 2017
- Plan Approvals – MEMA and FEMA R3 – August 2017
Thank You!