

**Community Plan Amendment 16-00004**

# **2017 HAMPTON ROADS HAZARD MITIGATION PLAN**

Hampton City Council  
February 8, 2017



Salter's Creek  
CONSULTING



# Participating Communities

- Isle of Wight County
  - Town of Smithfield
  - Town of Windsor
- City of Franklin
- Southampton County
  - Town of Boykins
  - Town of Branchville
  - Town of Capron
  - Town of Courtland
  - Town of Ivor
  - Town of Newsoms
- City of Poquoson
- City of Chesapeake
- City of Hampton
- City of Newport News
- City of Williamsburg
- James City County
- York County
- City of Norfolk
- City of Portsmouth
- City of Suffolk
- City of Virginia Beach





# A 10-Step Process within the 4-Phase FEMA Guidance

## **Phase I: Organize Resources**

- Get organized
- Plan for public involvement
- Coordinate with other departments & agencies

## **Phase II: Assess Risk**

- Identify the hazards
- Assess the risks

## **Phase III: Develop Mitigation Plan**

- Review mitigation alternatives
- Draft an action plan
- Set planning goals

## **Phase IV: Adopt & Implement**

- Adopt the plan
- Implement the plan

← We Are Here



# Updating the Mitigation Plan

- Opportunity to integrate plan into existing planning mechanisms
- Combine existing plans into regional, multi-jurisdictional plan
- Simplify list of hazards and focus on capabilities, mitigation actions and implementation





# Successes

- 2011 plan integrated into City of Hampton's 2014 Emergency Operating Procedures update
- Switched to Everbridge for public warnings, integrated with VDEM (2013)
- Several on-going home elevation projects
- Implementation of revolving loan program for residential elevation projects

# 2017 Update

## Final Hazards Examined

- FLOODING
- SEA LEVEL RISE AND LAND SUBSIDENCE
- TROPICAL/COASTAL STORM
- SHORELINE EROSION
- TORNADO
- WINTER STORM
- EARTHQUAKE
- WILDFIRE
- HAZARDOUS MATERIALS INCIDENTS
- DROUGHT
- EXTREME HEAT

# Ranking Hazards

<b>CRITICAL HAZARD - HIGH RISK</b>	<b>FLOODING TROPICAL/COASTAL STORM</b>
<b>CRITICAL HAZARD - MODERATE RISK</b>	<b>SEA LEVEL RISE AND LAND SUBSIDENCE TORNADO WINTER STORM HAZARDOUS MATERIALS INCIDENT</b>
<b>NONCRITICAL HAZARD - LOW RISK</b>	<b>SHORELINE EROSION EARTHQUAKE WILDFIRE</b>
<b>NEGLIGIBLE</b>	<b>DROUGHT EXTREME HEAT</b>



# Revisiting Goals & Objectives

## **Goal 1: Increase community resiliency by reducing vulnerability to hazards.**

*Objective 1.1: Reduce damage to repetitively flooded properties*

*Objective 1.2: Protect existing and future development*

*Objective 1.3: Protect critical facilities/infrastructure*

*Objective 1.4: Maintain government services throughout hazard events*

*Objective 1.5: Reduce hazard-related impacts on daily routines*

*Objective 1.6: Preserve and enhance benefits of natural areas*

## **Goal 2: Educate the public about hazard vulnerabilities and ways to reduce risk**

*Objective 2.1: Encourage property owners to assume responsibility for reducing vulnerability*

## **Goal 3: Strengthen and develop partnerships for mitigating hazard impacts**

*Objective 3.1: Integrate mitigation concepts into local and regional government plans, policies and actions*

*Objective 3.2: Improve and standardize hazard data collection and mapping*

*Objective 3.3: Leverage shared resources in pursuit of funding for hazard mitigation projects*

*Objective 3.4: Develop partnerships among local, regional, national, and international organizations*



# Categories of Mitigation Activities

## **Preventive Measures**

- Floodplain mapping and data
- Open space preservation
- Floodplain regulations
- Coastal setback/erosion regs
- Planning & Zoning – Comp Plan, Zoning Ord
- Stormwater Regs
- Drainage system maintenance
- Building Codes

## **Property Protection Measures**

- Relocation
- Acquisition – (tie to foreclosures)
- Building elevation
- Retrofitting
- Sewer backup protection
- Insurance

# Categories of Mitigation Activities

## **Emergency Services Measures**

- Hazard threat recognition
- Hazard warning
- Hazard response operations
- Critical facilities protection
- Health & safety maintenance
- Post-disaster mitigation actions

## **Natural Resource Protection Measures**

- Wetlands protection
- Erosion & sediment control
- Natural area preservation
- Natural area restoration
- Water quality improvement
- Environmental corridors
- Natural functions protection



# Categories of Mitigation Activities

## **Structural Projects**

- Reservoirs
- Levees/floodwalls
- Diversions
- Channel modifications
- Storm drain improvements

## **Public information**

- Map information
- Outreach projects
- Real estate disclosure
- Library
- Technical assistance
- Environmental education

# Regional Mitigation Activities

- Collect Lowest Floor Elevation Data using Side-Scan LIDAR
- Annual Mitigation Funding Workshop at HRPDC
- Analyze/Update HAZUS Input Data



# Hampton's Key Mitigation Actions

- Stay in NFIP and CRS
- Mitigate structures in flood-prone areas, including mitigation/reconstruction
- Protect critical facilities
- Purchase distressed, flood-prone properties and demo

# Hampton's Key Mitigation Actions

- No wake zone in flooded areas
- Holistic watershed plan
- Improve use of social media for hazard events
- Train CERT groups in mitigation
- Improve drainage system maintenance
- Build resiliency



# Hampton's Key Mitigation Actions

- Conduct repetitive flood loss area analyses
- Maintain storm-resistant beach from Grandview to Ft. Monroe
- Warning system for coastal storms
- Assist owners with minus-rated properties
- Prepare public outreach materials

# Adoption

- Adoption of this plan is critical to remaining in the Community Rating System program



# Recommendation

Staff recommends approval of  
Community Plan Amendment 16-00004

Planning Commission recommends  
approval of Community Plan  
Amendment 16-00004