

Appendix C – 2011 Actions

The following tables provide detailed updates to the actions committed to by the participating jurisdictions in the 2011 Richmond Regional – Crater PDC Hazard Mitigation Plan. The updates are provided by county in alphabetical order. Towns are included with their respective counties.

The “Status” column is coded as follows:

C = Complete

CT = Continue as 2017 – 2022 action

N/A = Funds Not Available

D = Discontinue/Delete

No information means jurisdiction did not provide more information.

Some communities did not respond to repeated email, calls and letters requesting a status update on 2011 plan actions. This is indicated for those specific actions.

In other instances, the status “comments” record is not complete because more information was not provided by the community.

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Charles City County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Charles City-1	Complete adoption of new subdivision ordinance.	Planning Department	Medium	C	New Ordinance adopted in April 2015
Charles City-2	Listing and Review of Repetitive Loss and Severe Repetitive Loss structures	Planning	Low	CT	No current properties. Ongoing.
Charles City-3	Distribute brochures and use other means to educate the public regarding preparedness and mitigation. Conduct annual preparedness days for hazards to include floods, wind, and earthquakes.	Emergency Management	Medium	CT	CERT and Survivor Day training. Ongoing.
Charles City-4	Implement FIREWISE wildfire education program.	Fire	Low	CT	Low due to staffing challenges; need to check with DOF.
Charles City-5	Include an assessment and associated mapping of the municipalities' vulnerabilities to location-specific hazards and make appropriate recommendations for the use of these hazard areas in the next comprehensive plan.	Emergency Management	Medium	CT	Incorporated into 2017 Action #2.
Charles City-6	Install flood level markers and work with NOAA to obtain related GIS data.	Emergency Management	Medium	CT	Continue in 2017 Actions.

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Charles City County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Charles City-7	Review locality's compliance with the NFIP with an annual review of the floodplain ordinances and any newly permitted activities in the 100-year floodplain.	Planning	Medium	CT	Continue in 2017 Actions.
Charles City-8	Revise comprehensive plan to discourage private roads in future development.	Planning Department	Low	CT	Not current policy and cannot be addressed until Comprehensive Plan update in 2019.
Charles City-9	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA HMA programs, where appropriate.	Emergency Management	Medium	CT	Continue in 2017 Actions.
Charles City-10	Encourage new facilities such as banks, gas stations, and pharmacies to have back-up generators when they are constructed.	Emergency Management	Medium	Delete	There are no resources to incentivize this initiative.
Charles City-11	Harden local utilities to improve recovery time.	Public Works	Medium	CT	Incorporated into 2017 Action #1.
Charles City-12	Work with private utilities to keep right-of-way clear.	Public Works	Medium	CT	Ongoing

Charles City County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Charles City-13	Work with the state to improve traffic management issues/concerns from Hampton Roads evacuation.	Planning Department Emergency Mgmt	Low	C	Route 5 is not a designated evaluation route for the Hampton Roads area.
Charles City-14	Work with Dominion Virginia Power to educate residents on how to install and hook up home generators safely. Provide assistance with hook-ups on case-by-case basis.	Public Works	Medium	Delete	Dominion does not provide this type of assistance. County cannot provide this service.

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Chesterfield County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Chesterfield-1	Complete adoption of new digital FIRMs.	Environmental Engineering	Medium	C	Completed.
Chesterfield-2	Continue to evaluate existing stormwater system and maintain adequacy for current flood risk.	Environmental Engineering	Medium	CT	Remove and incorporate into new #13
Chesterfield-3	Continue to work with VDEM and FEMA to mitigate repetitive and SRL properties as grant funds are available and owners demonstrate interest in participation.	Emergency Management	Low	CT	Request annual SRL/RL data from VDEM/DCR. Provided 11.04.2016.
Chesterfield-4	Enhance and coordinate use of GIS to gather damage assessment information by all county agencies including establishing naming conventions and data categories.	GIS	Low	CT	A group looked into this in 2012/2013 timeframe but was not well established due to staff changes and time commitments with departmental work. Keep as a goal.
Chesterfield-5	Implement citizen notification system (e.g., Reverse 911).	Emergency Management	Low	C	Completed. Everbridge was implemented in 2014 as the county's notification system which enables users to "opt in" and choose way to be notified.
Chesterfield-6	Include 2011 Hazard Mitigation Plan in the reference manual of the Chesterfield Countywide Comprehensive Plan, 2011.	Planning	Low	CT	This was not done. We did not end up publishing a "reference manual" as part of the comp plan update as we thought we were when this action was created. Let's change this to something along the lines of "Include hazard mitigation in the comprehensive plan update in 2017 by linking concepts in the planning process that would accomplish hazard

Chesterfield County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
					mitigation". The rest of the categories would remain the same.
Chesterfield-7	Install quick connects for generators at critical facilities. Work with the Urban Areas Security Initiative (UASI) to retrofit any facilities not funded with UASI grants.	Emergency Management	Medium	CT	Reword this to be more general to "address critical facility infrastructure through potential grant funding with the possibility of quick connects". The region is no longer a UASI and our critical infrastructure needs are listed through county's CIP.
Chesterfield-8	Provide training opportunities to county/municipal enforcement staff. Educate them on damage assessment, mitigation techniques, and other related topics.	Emergency Management	Low	CT	Reword to "provide training opportunities to educate all county staff with a role in disaster recovery through training, mitigation techniques and long term recovery best practices."
Chesterfield-9	Maintain Storm Ready certification.	Emergency Management	Low	CT	Last update was 2014.
Chesterfield-10	Continue to implement a channel maintenance program consisting of routine inspections and subsequent debris removal to ensure free flow of water in local streams and watercourses. Identify funding opportunities.	Environmental Engineering	Medium	CT	Remove and incorporate into new #13
Chesterfield-11	Inspect and clear debris (or encourage VDOT to) from stormwater drainage system.	Environmental Engineering	Medium	CT	Remove and incorporate into new #13

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Chesterfield County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Chesterfield-12	Distribute brochures and use other means to educate the public regarding preparedness and mitigation. Conduct annual preparedness days for hazards to include floods, wind, and earthquakes.	Emergency Management	Medium	CT	Reword to "encourage whole community preparedness through education of hazards affecting the community and steps to reduce the vulnerability."
Chesterfield-13	Request list from VDEM or VA DCR and conduct annual review of RL and SRL property list to ensure accuracy. Review will include verification of the geographic location of each RL property and determination if mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Emergency Management	Low	CT	Remove and combine with goal #3.
Chesterfield-14	Continue to enforce zoning and building codes, with emphasis on floodplain management.	Inspections	High	CT	Continued in 2017 Actions.
Chesterfield-15	Review locality's compliance with the NFIP with an annual review of the floodplain ordinances and any newly permitted activities in the 100-year floodplain.	Emergency Management	Medium	CT	Continued in 2017 Actions.
Chesterfield - 16	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA HMA programs, where appropriate.	Emergency Management	Medium	CT	The can be removed and combined with another goal that includes the RL/SRL. The goal can be broader. This is redundant and unnecessary.
Chesterfield-17	Discuss with mobile home park owners and operators construction of community safe rooms.	Emergency Management	Medium	C	Offered targeted communities "Survivor Day" programs, other relevant outreach was conducted.

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Chesterfield County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Chesterfield-18	Determine, in concert with Chesterfield School District, if schools identified as potential shelter sites require retrofitting (e.g., safe rooms, wind load increases).	Emergency Management	Medium	C	A shelter for "Employee Worker Dependents" was considered but determined to be inappropriate due to funding constraints.
Chesterfield-19	Review county telework policy pilot and determine effect on ensuring county continuity of government.	Emergency Management	Medium	C	COOP policy is in place.
Chesterfield-20	Consider adopting land development policies specific to wildland-urban interface fire (e.g., Firewise principles) and/or requiring review of proposed development plans by VDOF.	Building Inspections	Low	C	Remove.
Chesterfield-21	Work with Virginia Department of Mines, Minerals and Energy to continue to refine the Locations of Abandoned Mines in the Greater Richmond Area maps. Use these maps to guide zoning, development, and building inspection decisions.	Inspections; Environmental Engineering	Medium	CT	Including Planning as a listed department since they have a working relationship with DMME.
Chesterfield-22	Expand Community Emergency Response Team program to target recruitment of county staff.	Emergency Management	Low	C	Remove, this is covered under staff training.
Chesterfield-23	Enhance building permitting system (POSSE) to include disaster-related information to more comprehensively capture damage assessment data.	GIS; Inspections	Medium	CT	Modify to say "Provide disaster job for building permit applications in new Enterprise Land Management System (ELM) to comprehensively capture damage assessment data.

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City of Colonial Heights 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Colonial Heights-1	Continue to enforce zoning and building codes, with emphasis on floodplain management.	Building Department	High	CT	Ongoing.
Colonial Heights-2	Review of the floodplain ordinances and any newly permitted activities in the 100-year floodplain.	Emergency Management	Medium	CT	Change strategy to: Review of the floodplain ordinances and any newly permitted activities in the 100-year floodplain.
Colonial Heights-3	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA HMA programs, where appropriate.	Emergency Management	Medium	CT	No funding.
Colonial Heights-4	Install flood warning sign (including flood level) at railroad bridge crossing of the Boulevard at Old Town Creek. Language possibilities include "Caution: possible water on roadway ahead when lights flashing," "Caution: this road subject to flash flooding," "Caution: road subject to flooding. Indicators show depth."	Emergency Management	Medium	C	Complete.
Colonial Heights-5	Distribute brochures and use other means to educate the public regarding preparedness and mitigation. Conduct annual preparedness days for hazards to include floods, wind, and earthquakes.	Emergency Management	Medium	CT	Ongoing.
Colonial Heights-6	Request list from VDEM or VA DCR and conduct annual review of RL and SRL property list to ensure accuracy. Review will include verification of the geographic location of each RL property and determination if mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Emergency Management	Low	CT	Ongoing.

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City of Colonial Heights 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Colonial Heights-7	Install quick connects for generators at critical facilities. Work with UASI to retrofit any facilities not funded with UASI grants.	Emergency Management	Medium	D	Delete strategy
Colonial Heights-8	Continue to enhance and build Community Emergency Response Team program.	Emergency Management	Low	D	Delete strategy, no funding.
Colonial Heights-9	Work with VDEM to facilitate discussions with state and federal agencies to address environmental planning issues that impact the ability of the city to mitigate Old Town Creek (i.e., Newcastle Ave).	Emergency Management	Low	D	Delete strategy.
Colonial Heights-10	Complete purchase of NOAA weather radios for public facilities.	Emergency Management	Medium	CT	Ongoing.
Colonial Heights-11	Work with VDEM to identify local resources that can be used to support state sheltering efforts in response to Hampton Roads incoming evacuees. Encourage coordination with western counties.	Emergency Management	Low	D	Delete strategy.

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Dinwiddie County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Dinwiddie-1	Complete adoption of new floodplain ordinance.	Planning/Zoning	Low	C	Completed in 2011.
Dinwiddie-2	Request list from VDEM or VA DCR and conduct annual review of RL and SRL property list to ensure accuracy. Review will include verification of the geographic location of each RL property and determination if mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Planning/Zoning	Low	CT	No properties on the list.
Dinwiddie-3	Continue to work with VDOT to evaluate and mitigate at-risk roads.	Emergency Management	Medium	CT	Some progress like culvert replacement. Ongoing.
Dinwiddie-4	Distribute brochures and use other means to educate the public regarding preparedness and mitigation. Conduct annual preparedness days for hazards to include floods, wind, and earthquakes.	Emergency Management	Medium	CT	Ongoing.
Dinwiddie-5	Finalize Continuity of Operations Plan.	Emergency Services	Medium	C	Completed. Exercise in 2017.
Dinwiddie-6	Finalize debris management plan.	Emergency Management	Medium	CT	Completed. Pursuing Dinwiddie-specific contract, using state contract now.

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Dinwiddie County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Dinwiddie-7	Improve communications coordination with railroad.	Emergency Management	Medium	CT	Completed.
Dinwiddie-8	Review locality's compliance with the NFIP with an annual review of the floodplain ordinances and any newly permitted activities in the 100-year floodplain.	Emergency Management	Medium	CT	Ongoing.
Dinwiddie-9	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA HMA programs, where appropriate.	Emergency Management	Medium	CT	Ongoing.
Dinwiddie-10	Work with the National Weather Service (NWS) to promote the "Turn Around, Don't Drown" public education campaign.	Emergency Management	Medium	C	Completed.
McKenney-1	Distribute pamphlets, brochures, and use the local cable television access channel to educate the public regarding preparedness and mitigation. Continue to work with Dinwiddie County and participate in annual preparedness days.	Mayor	Medium	CT	Ongoing.
McKenney-2	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA HMA programs, where appropriate.	Mayor	Medium	CT	Ongoing.

Dinwiddie County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
McKenney-3	Review locality's compliance with the NFIP with an annual review of the floodplain ordinances and any newly permitted activities in the 100-year floodplain.	Mayor	Medium	CT	Ongoing.

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City of Emporia 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Emporia-1	Add staff to Emergency Management Office, Building Inspections Office, and/or Zoning Office.	Emergency Services	Medium	D	No plans to do this; should be removed.
Emporia-2	Complete improvements to utility lines.	Public Utilities	High	CT	Water lines within the City need to be replaced; water treatment plant completed Dec 2016.
Emporia-3	Complete replacement of Halifax Street Bridge.	Public Works	Medium	CT	Working with VDOT.
Emporia-4	Consider participating in FEMA's CRS.	Emergency Services	Low	D	Elected not to participate; should be removed.
Emporia-5	Continue to review and make recommendations for improvements to the stormwater system.	Emergency Services	High	CT	No further information.
Emporia-6	Finalize Continuity of Operations Plan.	Administration	High	CT	No further information.

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City of Emporia 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Emporia-7	Identify grant to support geo-coded damage assessment data collection.	Emergency Services	Medium	D	No further information.
Emporia-8	Install additional gauges on Meherrin River.	Emergency Services	Medium	CT	River gauges are ok, need additional rain gauges connected to NWS; no new gauges installed; want automated gauges.
Emporia-9	Integrate data from new flood gauges into citizen notification system.	Emergency Services	Medium	CT	Currently done by an individual.
Emporia-10	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA HMA programs, where appropriate.	Emergency Services	Medium	CT	Replace with more comprehensive action.
Emporia-11	Review locality's compliance with the NFIP with an annual review of the floodplain ordinances and any newly permitted activities in the 100-year floodplain.	Zoning Administrator	Medium	CT	Up-to-date with federal standards.
Emporia-12	Distribute brochures and use other means to educate the public regarding preparedness and mitigation. Conduct annual preparedness days for hazards to include floods, wind, and earthquakes.	Emergency Services	Low	CT	No further information.

City of Emporia 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Emporia-13	Request list from VDEM or VA DCR and conduct annual review of RL and SRL property list to ensure accuracy. Review will include verification of the geographic location of each RL property and determination if mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Zoning Administrator	Low	CT	None in Emporia.

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Goochland County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Goochland-1	Request list from VDEM or VA DCR and conduct annual review of RL and SRL property list to ensure accuracy. Review will include verification of the geographic location of each RL property and determination if mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Emergency Management	Low	N/A	No repetitive loss properties listed. Last reported loss was in 1972.
Goochland-2	Continue coordination with VDEM on incoming evacuee issues.	Emergency Management	Medium	CT	Continued in 2017 Actions.
Goochland-3	Continue to consider the use of proffers for road improvements including flood mitigation measures in the next comprehensive plan.	Planning and Zoning	Low	D	Change in state law may effect this.
Goochland-4	Continue to coordinate with City of Richmond and Department of Corrections to address wastewater capacity issues.	Public Utilities	High	CT	Continued in 2017 Actions.
Goochland-5	Continue to identify and fulfill need for backup generators, communications, and/or vehicles at critical public facilities.	Public Utilities	Medium	C	This strategy was integrated into 2017 Action 7.
Goochland-6	Continue to provide training opportunities to county staff.	Emergency Management	Medium	CT	Continued in 2017 Actions.

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Goochland County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Goochland-7	Distribute brochures and use other means to educate the public regarding preparedness and mitigation. Conduct annual preparedness days for hazards to include floods, wind, and earthquakes.	Emergency Management	Medium	CT	Continued in 2017 Actions.
Goochland-8	Identify means to coordinate, collect, and store damage assessment data in GIS format for each natural hazard event which causes death, injury, and/or property damage.	Emergency Management/IT	Medium	CT	Continued in 2017 Actions.
Goochland-9	Promote the “Turn Around, Don’t Drown” public education campaign.	Emergency Management	Medium	C	This strategy was integrated into 2017 Action 4.
Goochland-10	Review locality’s compliance with the NFIP with an annual review of the floodplain ordinances and any newly permitted activities in the 100-year floodplain.	Emergency Management	Medium	C/CT	Comprehensive Plan and floodplain management ordinance were recently reviewed.
Goochland-11	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA HMA programs, where appropriate.	Emergency Management	Medium	CT	Continued in 2017 Action 7.

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Greenville County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Greenville-1	Complete development of Continuity of Operations plan.	Public Safety	Medium	CT	No Information provided.
Greenville-2	Complete implementation of citizen notification system.	Public Safety	Medium	CT	No Information provided.
Greenville-3	Complete study of county FEMA maps to fill in missing flood map sections.	Department of Planning and Zoning	Medium	completed	No Information provided.
Greenville-4	Consider participating in "Turn Around, Don't Drown" public education campaign.	Public Safety	Medium	CT	No Information provided.
Greenville-5	Continue to install the necessary electrical hook-up, wiring, and switches to allow readily accessible connections to emergency generators at key critical public facilities as funding permits.	Public Safety	Medium	completed	No Information provided.
Greenville-6	Improve GIS layers and track storm damages.	Public Safety	Medium	CT	purchased digital camera that imports photos into GIS

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Greenville County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Greenville-7	Work with VDOT to establish additional flood level markers along creeks and rivers in potential flood-prone areas.	Public Safety	Medium	CT	No Information provided.
Greenville-8	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA HMA programs, where appropriate.	Public Safety	Medium	completed	Cannot build in floodplain unless 1 foot above high water mark.
Greenville-9	Review locality's compliance with the NFIP with an annual review of the floodplain ordinances and any newly permitted activities in the 100-year floodplain.	Department of Planning and Zoning	Medium	CT	No Information provided.
Greenville-10	Distribute brochures and use other means to educate the public regarding preparedness and mitigation. Conduct annual preparedness days for hazards to include floods, wind, and earthquakes.	Public Safety	Medium	CT	Neighborhood Watch and schools used to distribute information.
Greenville-11	Request list from VDEM or VA DCR and conduct annual review of RL and SRL property list to ensure accuracy. Review will include verification of the geographic location of each RL property and determination if mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Department of Planning and Zoning	Low	NA	No Information provided.
Jarratt-1	Distribute brochures and use other means (i.e., local media) to educate the public regarding preparedness and mitigation. Conduct annual preparedness days of hazards to include flood, wind, and earthquake.	Mayor	Medium	NA	Community did not respond to status update request.

Greenville County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Jarratt-2	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA HMA programs, where appropriate.	Mayor	Medium		Community did not respond to status update request.
Jarratt-3	Review locality's compliance with the NFIP with an annual review of the floodplain ordinances and any newly permitted activities in the 100-year floodplain.	Mayor	Medium		Community did not respond to status update request.
Jarratt-4	Request list from VDEM or VA DCR and conduct annual review of RL and SRL property list to ensure accuracy. Review will include verification of the geographic location of each RL property and determination if mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Mayor	Low		Community did not respond to status update request.

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Hanover County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Hanover-1	Complete installation of necessary electrical hook-up, wiring, and switches to allow readily accessible connections to emergency generators at key critical facilities.	Emergency Management	Medium	CT	Hanover High School is the County's shelter - wiring for generator added to test; switched installed. Purchased 36kw generator. Now included in 2017 Action # 7.
Hanover-2	Complete review and adoption of subdivision ordinance.	Planning and Community Development	Low	C	Ingress, egress and stormwater management is regulated in subdivision ordinance.
Hanover-3	Complete review and adoption of zoning ordinance.	Planning and Community Development	Low	C	Completed.
Hanover-4	Develop a more advanced flood warning system to increase the ability to locally and specifically forecast flood events and flood depths. Partner with other organizations including the NWS, U.S. Geological Survey (USGS), and local watershed organizations.	Emergency Management	High	CT	Continued in 2017 Actions.
Hanover-5	Integrate hazard mitigation into new comprehensive plan.	Planning and Community Development	High	C	Completed.
Hanover-6	Work with the NWS to promote the "Turn Around, Don't Drown" public education campaign.	Public Safety	High	CT	Complete and will continue; multiple social media messaging using Facebook, Twitter, County website and Code Red purchased in 2011.

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Hanover County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Hanover-7	Review locality's compliance with the NFIP with an annual review of the floodplain ordinances and any newly permitted activities in the 100-year floodplain.	Planning and Community Development	Medium	CT	Continued in 2017 Actions.
Hanover-8	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA HMA programs, where appropriate.	Emergency Management	Medium	CT	Continued in 2017 Actions.
Hanover-9	Distribute brochures and use other means to educate the public regarding preparedness and mitigation. Conduct annual preparedness days for hazards to include floods, wind, and earthquakes.	Emergency Management	Medium	CT	During the reporting period, Hanover County has sponsored Survivor Days, CERT classes, emergency preparedness and mitigation outreach, National Night Out, Neighborhood Watch and related emergency management community awareness through use of social media.
Hanover-10	Request list from VDEM or VA DCR and conduct annual review of RL and SRL property list to ensure accuracy. Review will include verification of the geographic location of each RL property and determination if mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Planning and Community Development	Low	CT	No current RL/SRL properties. One DCR-owned dam - Springfield Lake. Hanover conducts annual table top exercises on open and closed dam releases.
Ashland-1	Evaluate and make improvements, as needed, to stormwater system to ensure adequacy to handle major rain events.	Public Works	Medium	CT	Continue in 2017 Actions.
Ashland-2	Consider participating in FEMA's Community Rating System (CRS).	Planning and Community Development	Medium	CT	Certified during 2016.

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Hanover County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Ashland-3	Develop Continuity of Operations plan.	Police	Low	CT	All operations plans are in ICS format.
Ashland-4	Continue to enhance capabilities to use GIS for emergency management.	Planning and Community Development	Low	CT	Coordination with Hanover GIS for emergency management GIS systems.
Ashland-5	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA Hazard Mitigation Assistance (HMA) programs, where appropriate.	Planning and Community Development	Medium	CT	Accomplished through on-going administration of floodplain code administration and CRS program.
Ashland-6	Review locality's compliance with the NFIP with an annual review of the Floodplain Ordinances and any newly permitted activities in the 100-year floodplain.	Planning and Community Development	Medium	CT	Accomplished and on-going administration of floodplain code.
Ashland-7	Distribute brochures and use other means (e.g., local media) to educate the public regarding preparedness and mitigation. Conduct annual preparedness days for hazards to include floods, wind, and earthquakes.	Police	Medium	CT	Preparedness information is placed on the police and Town web site in addition to the use of social media sites using Twitter and Facebook. Sponsored National Night Out, table top exercises and Neighborhood Watch.
Ashland-8	Request list from VDEM or VA Department of Conservation and Recreation (DCR) and conduct annual review of repetitive loss (RL) and severe repetitive loss (SRL) property list to ensure accuracy. Review will include verification of the geographic location of each RL property and determination if mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Planning and Community Development	Low	CT	Accomplished through on-going administration of floodplain code administration and CRS program.

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Henrico County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Henrico-1	Conduct site inspections of schools and help to identify areas for use as tornado safe rooms.	Emergency Management	Medium	CT	Ongoing as a part of annual site safety audits. However, frequent site updates would benefit preparedness efforts.
Henrico-2	Continue to implement channel maintenance program.	Public Works	Medium	CT	Continued in 2017 Actions.
Henrico-3	Enhance availability of Community Emergency Response Team training to targeted populations.	Emergency Management	Low	CT	Combine for 2017.
Henrico-4	Enhance water availability for wildfire fighting in eastern portion of the county.	Fire	Low	CT	Continued in 2017 Actions.
Henrico-5	Ensure stormwater system remains adequate for flood hazards.	Public Utilities	Medium	CT	Continued in 2017 Actions.
Henrico-6	Identify and secure pre-event shelter sites (not flood-prone, not subject to wind damage) and ensure compliance with national shelter standards.	Emergency Management	Low	CT	Initiated reaching out to faith-based and private organizations.

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Henrico County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Henrico-7	Identify new site for Emergency Operations Center (EOC) and identify viable alternate site. Second floor of building is vulnerable to wind damage and is located near major road and hospital; there is potential for hazmat exposure. Also EOC is not a dedicated facility.	Emergency Management	Low	CT	Continued in 2017 Actions.
Henrico-8	Incorporate mitigation into existing standing regional planning groups.	Emergency Management	Low	CT	Continued in 2017 Actions.
Henrico-9	Install electrical hook-ups, wiring, and switches to allow quick connects at county-owned critical facilities (focus on properties not funded through BZCP and UASI programs).	Emergency Management	Medium	CT	Completed for one site; additional sites identified and will continue in 2017 Actions.
Henrico-10	Invest in staff capacity to enhance ability to implement mitigation programs throughout the county.	Emergency Management	Low	CT	Continued in 2017 Actions.
Henrico-11	Investigate feasibility of installing tide gauge on James River at Osbourne Landing.	Emergency Management	Low	CT	Funded from 2016 SHSGP funds.
Henrico-12	Maintain relationships with Dominion Virginia Power, Comcast, Verizon (and other utility service providers), and VDOT to ensure swift removal of debris and continued maintenance of lines to minimize future debris.	Emergency Management	Medium	CT	Continued in 2017 Actions.

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Henrico County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Henrico-13	Participate in Great Shakeout and other wide-scale disaster drills.	Emergency Management	Low	CT	Combine 3, 13, 14 and 18 into a single public outreach action.
Henrico-14	Complete participation in the Storm Ready program sponsored by the NWS.	Emergency Management	Low	CT	Combine for 2017.
Henrico-15	Target FEMA's RL properties for specialized outreach and mitigation activities.	Emergency Management	Medium	C	Completed.
Henrico-16	Incorporate mitigation principles into local comprehensive, emergency management, and recovery plans.	Emergency Management	Low	CT	Continued in 2017 Actions.
Henrico-17	Work with DOF to increase number of fire danger signs in WUI.	Emergency Management	Low	C	Completed.
Henrico-18	Distribute brochures and use other means (e.g., local media) to educate the public regarding preparedness and mitigation. Conduct annual preparedness days for hazards to include floods, wind, and earthquakes.	Emergency Management	Medium	CT	Combine for 2017.

Henrico County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Henrico-19	Request list from VDEM or VA DCR and conduct annual review of RL and SRL property list to ensure accuracy. Review will include verification of the geographic location of each RL property and determination if mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Emergency Management	Low	CT	Continued in 2017 Actions.
Henrico-20	Continue to enforce zoning and building codes, with emphasis on floodplain management.	Inspections	High	CT	Continued in 2017 Actions.
Henrico-21	Review locality's compliance with the NFIP with an annual review of the floodplain ordinances and any newly permitted activities in the 100-year floodplain.	Public Works	Medium	CT	Continued in 2017 Actions.
Henrico-22	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA HMA programs, where appropriate.	Emergency Management	Medium	CT	Continued in 2017 Actions.

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City of Hopewell 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Hopewell-1	Integrate the jurisdiction's mitigation plan into future capital improvement plans to ensure that new city facilities are located out of harm's way.	Emergency Management	High	CT	Ongoing.
Hopewell-2	Continue to enforce zoning and building codes, with emphasis on floodplain management.	Development	High	CT	Continue.
Hopewell-3	Target FEMA's RL properties for specialized outreach and mitigation activities.	Emergency Management	Medium	CT	Two houses previously eligible might fall off list.
Hopewell-4	Inspect and clear debris from stormwater drainage system.	Public Works	Medium	CT	No further information provided.
Hopewell-5	Review locality's compliance with the NFIP with an annual review of the floodplain ordinances and any newly permitted activities in the 100-year floodplain.	Development	Medium	CT	FEMA wants internal audit for and permits issued in floodplain
Hopewell-6	Support mitigation of priority flood-prone structures through promotion of acquisition/demolition, elevation, and floodproofing projects where feasible using FEMA HMA programs, where appropriate.	Emergency Management	Medium	CT	Continue.

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City of Hopewell 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Hopewell-7	Consider participating in FEMA's CRS.	Development	Medium	CT	May require too much manpower.
Hopewell-8	Relocate public safety facility outside of 0.5 mile evacuation zone for industrial plants and as far as possible from train yards/tracks.	Emergency Management	High	CT	Effort is underway.
Hopewell-9	Discuss with owners opportunities to harden industrial facilities.	Emergency Management	Medium	CT	Continue.
Hopewell-10	Flood proof First Street sewer pump station to reduce flood damage.	Wastewater Treatment	High	C	Continue effort to address issue.
Hopewell-11	Raise and make permanent the floodwall at pump station (0 Riverside Avenue).	Virginia American Water Company	Medium	C	Completed.
Hopewell-12	Increase capacity of Cabin Creek drainage system including 1) debris clearing and revetment, and 2) if necessary, re-alignment of channel.	Public Works	High	C	1) has been completed; 2) is ongoing
Hopewell-13	Develop a debris removal plan.	Public Works	Medium	CT	Portions are complete

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City of Hopewell 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Hopewell-14	Review and revise, if needed, local floodplain ordinances.	Development	Medium	C	New ordinance completed in 2015
Hopewell-15	Request list from VDEM or VA DCR and conduct annual review of RL and SRL property list to ensure accuracy. Review will include verification of the geographic location of each RL property and determination if mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Emergency Management	Low	CT	Continue.
Hopewell-16	Distribute brochures and use other means to educate the public regarding preparedness and mitigation.	Emergency Management	Medium	CT	Continue.
Hopewell-17	Install NWS-grade tide gauge at confluence of James and Appomattox Rivers. Include acoustic water-level sensor, protective well components, data collection platform, GOES satellite telemetry, enclosure, stand, batteries, antenna, and solar panels.	Emergency Management	Low	CT	Continue.
Hopewell-18	Complete continuity of operations plan.	Emergency Management	Low	CT	Continue.
Hopewell-19	Identify means to coordinate, collect, and store damage assessment data in GIS format for each natural hazard event which causes death, injury, and/or property damage.	Development	Low	CT	Being done to some extent; would like to improve and make more efficient; new software or app(s) needed.

City of Hopewell 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Hopewell-20	Identify training opportunities for staff to enhance ability to use GIS for emergency management needs.	Emergency Management	Low	CT	Being done to some extent; would like to improve and make more efficient; new software or app(s) needed.

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New Kent County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
New Kent-1	Complete initial application for Storm Ready program.	Emergency Management	Medium	C	Complete, continuing compliance.
New Kent-2	Request list from VDEM or VA DCR and conduct annual review of RL and SRL property list to ensure accuracy. Review will include verification of the geographic location of each RL property and determination if mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Emergency Management	Low	CT	Ongoing as needed; weather based due to lack of available staff.
New Kent-3	Continue to enforce zoning and building codes, with emphasis on floodplain management.	Inspections	High	CT	Continue in 2017 Actions.
New Kent-4	Continue to incorporate hazard mitigation techniques into new community facilities to minimize damages.	Building Development Office	Medium	CT	Homebuilders Associations prefer more lightweight/flammable materials which are more combustible creating a building fire hazard.
New Kent-5	Continue to participate in FEMA's CRS and achieve higher rating as possible.	Emergency Management	Medium	D	County discontinued participation in program due to lack of interest from community.
New Kent-6	Continue to work with the NWS to promote the "Turn Around, Don't Drown" public education campaign.	Emergency Management	Medium	CT	Change Priority Level

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New Kent County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
New Kent-7	Continue to work with VDOF to implement the FIREWISE program in New Kent County.	Emergency Management	Medium	CT	Continue in 2017 Actions.
New Kent-8	Distribute brochures and use other means to educate the public regarding preparedness and mitigation. Conduct annual preparedness days for hazards to include floods, wind, and earthquakes.	Emergency Management	Medium	CT	County uses social media.
New Kent-9	Encourage new facilities such as banks, gas stations, and pharmacies to have back-up generators as they are developed.	Building Development Office	Medium	CT	Continue in 2017 Actions.
New Kent-10	Evaluate stormwater system to determine if it is adequate for existing (or future) flood hazard.	Planning	Medium	CT	Ongoing. Continue in 2017 Actions.
New Kent-11	Harden local utilities to improve recovery time.	Public Utilities	Medium	CT	Dominion Virginia Power has been a good partner to clear overhead right-of-ways.
New Kent-12	Identify existing flood-prone structures that may benefit from mitigation measures such as elevation.	Emergency Management	Low	CT	Continue in 2017 Actions.

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New Kent County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
New Kent-13	Increase staff resources for emergency management and floodplain management.	Emergency Management	High	CT	Continue in 2017 Actions.
New Kent-14	Increase woodland community and wildfire planning county-wide.	Planning	Medium	CT	Continue in 2017 Actions.
New Kent-15	Investigate manufactured homes and trailers to evaluate their resistance to wind and flood hazards.	Building Development Office	Low	CT	Continue in 2017 Actions.
New Kent-16	Mitigate road construction in Fannies Creek area.	Emergency Management	Medium	C	Completed by VDOT.
New Kent-17	Reinstitute a luncheon for architects and engineers to talk about various issues.	Emergency Management	Low	D	Program cancelled due to lack of staff to head up.
New Kent-18	Review locality's compliance with the NFIP with an annual review of the floodplain ordinances and any newly permitted activities in the 100-year floodplain.	Emergency Management	Medium	CT	Continue in 2017 Actions.

New Kent County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
New Kent-19	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA HMA programs, where appropriate.	Emergency Management	Low	CT	Continue in 2017 Actions.
New Kent-20	Use fee simple and/or permanent easement to prevent development in the highest priority undeveloped floodplain (and/or wetlands) areas. Use these areas as public open space for passive recreational uses or utility easements.	Community Development	Medium	CT	Continue in 2017 Actions.
New Kent-21	Work with private utilities to keep right-of-way clear.	Public Utilities	Medium	CT	Change to High priority. Continue to work with Dominion Power on this initiative.
New Kent-22	Work with state to improve traffic management issues/concerns from Hampton Roads evacuation.	Planning	High	CT	Continue in 2017 Actions.

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City of Petersburg 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Petersburg-1	Continue to enforce zoning and building codes, with emphasis on floodplain management.	Building Department	High	CT	Continue.
Petersburg-2	Partner with parent-teacher associations and local schools to implement existing curriculum related to natural hazards (e.g., Masters of Disaster, Risk Watch).	Emergency Management	Low	CT	Continue.
Petersburg-3	Complete application for Storm Ready Program.	Emergency Management	Low	CT	Continue.
Petersburg-4	Consider participating in FEMA's CRS.	Public Works	Medium	CT	Continue.
Petersburg-5	Inspect and clear debris (or encourage VDOT to) from stormwater drainage system.	Public Works	High	CT	Continue.
Petersburg-6	Finish implementation of Reverse 911 system.	Emergency Management	Medium	CT	Continue.

City of Petersburg 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Petersburg-7	Establish flood-level markers along bridges and other structures to indicate the rise of water levels along creeks and rivers in potential flood-prone areas.	Public Works	Medium	NA	Continue.
Petersburg-8	Investigate all public utility lines to evaluate their resistance to flood, wind, and winter storm hazards.	Public Works	Medium	CT	Continue.
Petersburg-9	Work with VDOT, private utilities, and/or private homeowners to trim or remove trees that could down power lines.	Public Works	Low	CT	Continue.
Petersburg-10	Distribute brochures and use other means to educate the public regarding preparedness and mitigation.	Emergency Management	Medium	CT	Continue.
Petersburg-11	Request list from VDEM or VA DCR and conduct annual review of RL and SRL property list to ensure accuracy. Review will include verification of the geographic location of each RL property and determination if mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Planning/ Assessor	Low	No Action	Waiting for funding for Pictometry.
Petersburg-12	Review locality's compliance with the NFIP with an annual review of the floodplain ordinances and any newly permitted activities in the 100-year floodplain.	Emergency Management	Medium	CT	Continue.

City of Petersburg 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Petersburg-13	Support mitigation of priority flood-prone structures through promotion of acquisition/demolition, elevation, and floodproofing projects where feasible using FEMA HMA programs, where appropriate. Targets include properties on McKeever Street.	Emergency Management	Medium	CT	McKeever St.
Petersburg-14	Conduct stormwater utility fee feasibility study.	Public Works	Low	C	Completed April 2014
Petersburg-15	Install quick connects for generators at critical facilities.	Emergency Management	Medium	NA	Continue.
Petersburg-16	Continue to support development of Tri-City incoming evacuee management plan.	Emergency Management	Low	C	Developed the Tri-Cities Framework. This is a regional all hazard/emergency management plan. Exercised and implemented in 2014.

Powhatan County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Powhatan-1	Complete adoption of new floodplain ordinance.	Planning and Community Development	Low	C	Completed.
Powhatan-2	Consider installing "Turn Around, Don't Drown" road signs.	Emergency Management	Medium	D	No funds available to complete the project.
Powhatan-3	Continue implementation of community emergency response and other public outreach programs.	Emergency Management	Medium	CT	Continued in 2017 Actions.
Powhatan-4	Continue implementation of citizen notification system.	Emergency Management	Medium	D	Covered by Powhatan-1.
Powhatan-5	Continue to develop means to geo-code damage assessment information.	Emergency Management	Medium	CT	Continued in 2017 Actions.
Powhatan-6	Continue to identify and fulfill need for backup generators, communications, and/or vehicles at critical public facilities.	Emergency Management	Medium	D	Covered by Powhatan-1.

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Powhatan County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Powhatan-7	Continue to incorporate mitigation principles into local comprehensive, emergency management, and recovery plans.	Planning and Community Development	High	CT	Use "lessons learned" to inform incorporation of mitigation into plans.
Powhatan-8	Continue to install flood gauges and road signs as funding permits.	Emergency Management	Medium	D	No funds available to complete the project.
Powhatan-9	Continue to support efforts to implement improvements to electrical grid.	Utilities/General Services	Medium	D	Not implementable.
Powhatan-10	Enhance and encourage creation of an active community emergency response program.	Emergency Management	Medium	D	No funds available to complete the project.
Powhatan-11	Increase staffing for emergency management.	Emergency Management	Medium	C	No further information.
Powhatan-12	Study Village County Building and junior high school for potential quick connects.	Emergency Management	Medium	D	Covered by Powhatan-1.

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Powhatan County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Powhatan-13	Review locality's compliance with the NFIP with an annual review of the floodplain ordinances and any newly permitted activities in the 100-year floodplain.	Planning and Community Development	Medium	CT	Continued in 2017 Actions.
Powhatan-14	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA HMA programs, where appropriate.	Emergency Management	Medium	D	Covered by Powhatan-1.
Powhatan-15	Distribute brochures and use other means to educate the public regarding preparedness and mitigation. Conduct annual preparedness days for hazards to include floods, wind, and earthquakes.	Emergency Management	Medium	CT	Continued in 2017 Actions.
Powhatan-16	Request list from VDEM or VA DCR and conduct annual review of RL and SRL property list to ensure accuracy. Review will include verification of the geographic location of each RL property and determination if mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Planning and Community Development	Low	CT	Continued in 2017 Actions.

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Prince George County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Prince George-1	Continue to enforce zoning and building codes, with emphasis on floodplain management.	Building Department	High	CT	Continue.
Prince George-2	Include an assessment and associated mapping of the municipality's vulnerability to location-specific hazards and make appropriate recommendations for the use of these hazard areas in a future comprehensive plan.	Planning Department	Medium	CT	Continue.
Prince George-3	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other types of projects where feasible using FEMA HMA programs, where appropriate.	Emergency Management	Medium	CT	Continue.
Prince George-4	Evaluate existing stormwater system to determine if it is adequate for existing (or future) flood hazard.	Public Works	Medium	CT	Continue.
Prince George-5	Target FEMA's RL properties for specialized outreach and mitigation activities.	Emergency Management	Medium	CT	Continue.
Prince George-6	Consider participating in the Storm Ready program sponsored by the NWS.	Emergency Management	Low	C	County is part of Storm Ready (NOAA) community system.

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Prince George County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Prince George-7	Identify means to coordinate, collect, and store damage assessment data in GIS format for each natural hazard event which causes death, injury, and/or property damage.	Emergency Management	Low	CT	Continue.
Prince George-8	Increase capacity of fire department by purchasing additional specialized wildfire units (4-wheel drive vehicle with water tank and foam supplies) and pre-position around the county.	Emergency Management	Medium	C	No further information given
Prince George-9	Coordinate drought contingency plans with County Extension Office.	Emergency Management	Low	CT	No further information given
Prince George-10	Distribute brochures and use other means to educate the public regarding preparedness and mitigation.	Emergency Management	Medium	CT	Survivor Day
Prince George-11	Staff Emergency Management Office, Building Inspections Office, and/or Zoning Office at adequate levels.	County Administrator/ agency heads	Low	CT	Continue.
Prince George-12	Request list from VDEM or VA DCR and conduct annual review of RL and SRL property list to ensure accuracy. Review will include verification of the geographic location of each RL property and determination if mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Emergency Management	Low	CT	Continue.

Prince George County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Prince George-13	Review locality's compliance with the NFIP with an annual review of the floodplain ordinances and any newly permitted activities in the 100-year floodplain.	Emergency Management	Medium	CT	Continue.

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City of Richmond 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Richmond-1	Add additional emergency management staff.	Emergency Management	Medium	CT	Added one Shelter Manager position during the period.
Richmond-2	Complete implementation of the "Turn Around, Don't Drown" public education campaign. Install along German School Road and Gillis Creek.	Emergency Management	Medium	C	Major construction project completed 2014 to mitigate flooding along German School Road corridor, Department of Public Works project.
Richmond-3	Request list from VDEM or VA DCR and conduct annual review of RL and SRL property list to ensure accuracy. Review will include verification of the geographic location of each RL property and determination if mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Planning and Development Review	Low	CT	Sent to Richmond on 11.08.2016.
Richmond-4	Consider participating in FEMA's CRS.	Planning and Development Review	Medium	C	CRS rating currently 8. Revise to pursue a lower rating.
Richmond-5	Continue to enforce zoning and building codes, with emphasis on floodplain management.	Planning and Development Review	High	CT	Continue
Richmond-6	Continue to improve real-time data about flood depths.	Emergency Management	High	CT	Added three grant-supported gauging stations during the reporting period.

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City of Richmond 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Richmond-7	Develop a more advanced flood warning system to increase the ability to locally and specifically forecast flood events and flood depths. Tie into I-FLOWS and citizen notification system.	Emergency Management	High	C	Implemented a new notification system which will include a smart phone app.
Richmond-8	Distribute brochures and use other means to educate the public regarding preparedness and mitigation. Conduct annual preparedness days for hazards to include floods, wind, and earthquakes.	Emergency Management	Medium	CT	Used an "all hazards approach" during annual "Survivor Day" events.
Richmond-9	Encourage construction of tornado safe rooms.	Emergency Management	High	D	Delete - lack of funding and adequate safe areas in schools and public buildings.
Richmond-10	Encourage purchase of NOAA radios by citizens. Provide NOAA weather radios to public facilities.	Emergency Management	Medium	CT	Continue
Richmond-11	Identify training opportunities for staff to enhance ability to use GIS for emergency management needs.	Emergency Management	Medium	CT	Continue.
Richmond-12	Investigate all primary and secondary schools to evaluate their resistance to all natural hazards.	Emergency Management	Medium	NA	Primary and secondary schools are the responsibility of the RPS Emergency Planner. Will continue coordination with school system's emergency planner.

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City of Richmond 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Richmond-13	Request list from VDEM or VA DCR and conduct annual review of RL and SRL property list to ensure accuracy. Review will include verification of the geographic location of each RL property and determination if mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Planning and Development Review	Medium	CT	Contractor will email current list to City staff.
Richmond-14	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA HMA programs, where appropriate.	Emergency Management	Medium	CT	Planning and Development Review; used mitigation grant funds to support gauging station projects.
Richmond-15	Identify and target an outreach program to industrial facilities (particularly hazardous facilities) to discuss hazards and mitigation alternatives.	Emergency Management	Medium	CT	Change "industrial facilities" to "businesses."
Richmond-16	Install quick connects for generators at critical facilities. Work with UASI to retrofit any facilities not funded with UASI grants.	Emergency Management	Medium	D	The identified city facility was extremely costly to install quick connects for generators.

Surry County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Surry-1	Add building and other attributes to building footprint GIS data layer.	Emergency Services	Medium	C	Completed.
Surry-2	Increase staff resources for emergency management.	Emergency Services	Medium		Further Information not provided.
Surry-3	Work with VDOT to establish additional flood-level markers along creeks and rivers in potential flood-prone areas.	Emergency Services	Medium		Further Information not provided.
Surry-4	Identify means to coordinate, collect, and store damage assessment data in GIS format for each natural hazard event which causes death, injury, and/or property damage.	Emergency Services	Medium		Further Information not provided.
Surry-5	Develop Continuity of Operations plan.	Emergency Services	Medium	C	Completed.
Surry-6	Review citizen notification system and identify ways to improve notification.	Emergency Services	Medium	C	Completed - alert system is in place.

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Surry County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Surry-7	Continue to install the necessary electrical hook-up, wiring, and switches to allow readily accessible connections to emergency generators at key critical public facilities, as funding permits.	Public Safety	Medium	CT	Continue.
Surry-8	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA HMA programs, where appropriate.	Public Safety	Medium	D	County wants to remove this due to limits of financial liability.
Surry-9	Review locality's compliance with the NFIP with an annual review of the floodplain ordinances and any newly permitted activities in the 100-year floodplain.	Department of Planning and Zoning	Medium	C	Completed.
Surry-10	Distribute brochures and use other means to educate the public regarding preparedness and mitigation. Conduct annual preparedness days for hazards to include floods, wind, and earthquakes.	Public Safety	Medium	CT	Continue.
Surry-11	Request list from VDEM or VA DCR and conduct annual review of RL and SRL property list to ensure accuracy. Review will include verification of the geographic location of each RL property and determination if mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Department of Planning and Zoning	Low	CT	Continue.
Claremont-1	Continue to work with VDOT to develop an alternative ingress/egress to Claremont Beach.	Mayor	High	Ongoing	Continue.

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Surry County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Claremont-2	Conduct annual review of repetitive loss and severe repetitive loss property list provided by VDEM to ensure accuracy. Review will include verification of the geographic location of each repetitive loss property and determination if that property has been mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Mayor	Medium	Ongoing	Continue.
Claremont-3	Distribute brochures and use other means to educate the public regarding preparedness and mitigation. Conduct annual preparedness days for hazards to include floods, wind, and earthquakes.	Mayor	Medium	Ongoing	Continue.
Claremont-4	Review locality's compliance with the National Flood Insurance Program with an annual review of the Floodplain Ordinances and any newly permitted activities in the 100-year floodplain.	Mayor	High	Complete	Continue.
Claremont-5	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA Hazard Mitigation Assistance (HMA) programs, where appropriate.	Mayor	Medium	Ongoing	Continue.
Surry (town)-1	Review storm drainage system and identify funding opportunities for improvements.	Mayor	High		Community did not respond to status update request.
Surry (town)-2	Work with local sewer provider to ensure continual operations and identify funding opportunities for grants to help ensure continuity of operations (quick connects, raised systems, etc.)	Mayor	High	Ongoing	Town is in negotiations with Hampton Roads Sanitation District (HRSD) to take over management of sewage treatment plant.

Surry County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Surry (town)-3	Conduct annual review of repetitive loss and severe repetitive loss property list provided by VDEM to ensure accuracy. Review will include verification of the geographic location of each repetitive loss property and determination if that property has been mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Mayor	Medium		Community did not respond to status update request.
Surry (town)-4	Distribute brochures and use other means to educate the public regarding preparedness and mitigation. Conduct annual preparedness days for hazards to include floods, wind, and earthquakes.	Mayor	Medium		Community did not respond to status update request.
Surry (town)-5	Review locality's compliance with the National Flood Insurance Program with an annual review of the Floodplain Ordinances and any newly permitted activities in the 100-year floodplain.	Mayor	High		Community did not respond to status update request.
Surry (town)-6	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA Hazard Mitigation Assistance (HMA) programs, where appropriate.	Mayor	Medium		Community did not respond to status update request.

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Sussex County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Sussex-1	Add staff to Emergency Management Office, Building Inspections Office, and/or Zoning Office.	Public Safety	Medium	Continue	2011 - 1 part-time code compliance officer; 1 position serves as floodplain manager with many other duties.
Sussex-2	Continue to enforce zoning and building codes to prevent/control construction within the floodplain.	Building Inspections/ Department of Planning and Zoning	High	Continue	Ongoing - County obtained Arc GIS; will begin training.
Sussex-3	Continue to evaluate the floodplain manager's roles and responsibilities in each local jurisdiction.	Department of Planning and Zoning	High	Continue	Ongoing - emphasis on Stoney Creek.
Sussex-4	Continue to identify funding opportunities to replace vulnerable or undersized culvert stream crossings with bridges or larger culverts to reduce flood hazards.	Public Safety	Medium	Continue	Ongoing/ 2011 - worked with VDOT and made some progress including some increase in culvert sizes.
Sussex-5	Continue to pursue a federal/state project to elevate I-95 bridge and widen channel at Stony Creek.	Public Safety	Medium	Continue	No progress as it requires an expensive mitigation action. During extensive flooding a re-route of I-95 is required.
Sussex-6	Develop GIS capabilities.	Public Safety	Medium	Continue	Ongoing - County obtained Arc GIS; will begin training.

Appendix C: Status Update of 2011 Actions from the Richmond-Crater Multi-Regional Hazard Mitigation Plan

Sussex County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Sussex-7	Increase capacity of stormwater system in conjunction with towns of Wakefield and Waverly.	Public Safety	Medium	Continue	Ongoing - some progress after Ernesto when culverts and drains clogged.
Sussex-8	Investigate using non-conforming or substantial damage provisions to require hazard retrofitting of existing development.	Department of Planning and Zoning	Medium	Not applicable - Delete	Not applicable.
Sussex-9	Target FEMA's RL properties for specialized outreach and mitigation activities.	Public Safety	Low	Continue	Target Stoney Creek residences on list during new planning cycle.
Sussex-10	Work with the NWS to promote the "Turn Around, Don't Drown" public education campaign.	Public Safety	Medium	Continue	2011 - No action to date.
Sussex-11	Work with VDOT to address at-risk roads as funding is available.	Public Safety	Medium	Continue	Ongoing, some progress but there will always be a need.
Sussex-12	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA HMA programs, where appropriate.	Public Safety	Medium	Continue	No grant activity during last planning cycle.

Sussex County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Sussex-13	Review locality's compliance with the NFIP with an annual review of the floodplain ordinances and any newly permitted activities in the 100-year floodplain.	Department of Planning and Zoning	Medium	Continue	2016 new maps, adopted new ordinance.
Sussex-14	Distribute brochures and use other means to educate the public regarding preparedness and mitigation. Conduct annual preparedness days for hazards to include floods, wind, and earthquakes.	Public Safety	Medium	Continue	Some opportunities for continuation.
Sussex-15	Request list from VDEM or VA DCR and conduct annual review of RL and SRL property list to ensure accuracy. Review will include verification of the geographic location of each RL property and determination if mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Department of Planning and Zoning	Low	Continue	Continue.
Stony Creek-1	Review potential grant options to reduce repetitive and general flood damages to homes in town.	Mayor	Medium		Community did not respond to status update request.
Stony Creek-2	Work with the VDOT/VDEM/USACE to identify funding sources to improve the channel or bridge at I-95 and U.S. Route 301.	Mayor	Medium		Community did not respond to status update request.
Stony Creek-3	Review locality's compliance with the NFIP with an annual review of the floodplain ordinances and any newly permitted activities in the 100-year floodplain.	Mayor	Medium		Community did not respond to status update request.

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Sussex County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Stony Creek-4	Distribute brochures and use other means to educate the public regarding preparedness and mitigation. Conduct annual preparedness days for hazards to include floods, wind, and earthquakes.	Mayor	Medium		Community did not respond to status update request.
Stony Creek-5	Request list from VDEM or VA DCR and conduct annual review of RL and SRL property list to ensure accuracy. Review will include verification of the geographic location of each RL property and determination if mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Mayor	Low		Community did not respond to status update request.
Stony Creek-6	Mitigation projects that will result in protection of public or private property from natural hazards. Eligible projects include but are not limited to: 1. acquisition of floodprone property 2. elevation of floodprone structures 3. minor structural flood control projects 4. relocation of structures from hazard prone areas 5. retrofitting of existing buildings, facilities and infrastructure 6. retrofitting of existing buildings and facilities for shelters 7. critical infrastructure protection measures 8. stormwater management improvements 9. advanced warning systems and hazard gauging systems (weather radios, reverse-911, stream gauges, I-flows) 10. targeted hazard education 11. wastewater and water supply system hardening and mitigation	Mayor	Medium		Community did not respond to status update request.
Wakefield-1	Review storm drainage system and identify funding opportunities for improvements.	Mayor	High		Community did not respond to status update request.

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Sussex County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Wakefield-2	Review quick connection options for Town Hall and local 1st responders.	Mayor	High		Community did not respond to status update request.
Wakefield-3	Work with the NOAA on a possible Turn-Around, Don't Drown Campaign for streets (also include VDOT).	Mayor	High		Community did not respond to status update request.
Wakefield-4	Conduct annual review of repetitive loss and severe repetitive loss property list provided by VDEM to ensure accuracy. Review will include verification of the geographic location of each repetitive loss property and determination if that property has been mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Mayor	Medium		Community did not respond to status update request.
Wakefield-5	Distribute brochures and use other means to educate the public regarding preparedness and mitigation. Conduct annual preparedness days for hazards to include floods, wind, and earthquakes.	Mayor	Medium		Community did not respond to status update request.
Wakefield-6	Review locality's compliance with the National Flood Insurance Program with an annual review of the Floodplain Ordinances and any newly permitted activities in the 100-year floodplain.	Mayor	High		Community did not respond to status update request.
Wakefield-7	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA Hazard Mitigation Assistance (HMA) programs, where appropriate.	Mayor	Medium		Community did not respond to status update request.

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Sussex County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Waverly-1	Review storm drainage system and identify funding opportunities for improvements.	Mayor	High		Community did not respond to status update request.
Waverly-2	Review quick connection options for Town Hall and local 1st responders.	Mayor	High		Community did not respond to status update request.
Waverly-3	Work with Sussex Sewer Authority to ensure continual operations and identify funding opportunities for grants to help ensure CO (quick connects, raised systems, etc.)	Mayor	High		Community did not respond to status update request.
Waverly-4	Conduct annual review of repetitive loss and severe repetitive loss property list provided by VDEM to ensure accuracy. Review will include verification of the geographic location of each repetitive loss property and determination if that property has been mitigated and by what means. Provide corrections if needed by filing form FEMA AW-501.	Mayor	Medium		Community did not respond to status update request.
Waverly-5	Distribute brochures and use other means to educate the public regarding preparedness and mitigation. Conduct annual preparedness days for hazards to include floods, wind, and earthquakes.	Mayor	Medium		Community did not respond to status update request.
Waverly-6	Review locality's compliance with the National Flood Insurance Program with an annual review of the Floodplain Ordinances and any newly permitted activities in the 100-year floodplain.	Mayor	High		Community did not respond to status update request.

Sussex County 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Waverly-7	Support mitigation of priority structures through promotion of acquisition/demolition, elevation, floodproofing, and other mitigation projects where feasible using FEMA Hazard Mitigation Assistance (HMA) programs, where appropriate.	Mayor	Medium		Community did not respond to status update request.

Richmond Regional PDC 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Regional-1 (Richmond Regional PDC)	Leverage regional partnerships (e.g., law enforcement) to better use their data to inform mitigation planning and project development.	Local Emergency Managers	High	CT	This strategy is an ongoing practice that PDCs continue to perform. Most PDC work involves relationships and partnerships with varied entities.
Regional-2 (Richmond Regional PDC)	Work with state partners and neighboring regions to expand planning efforts regarding regional strategy for incoming evacuees (topics to include traffic management, shelters, information sharing, etc.).	Local Emergency Managers	Low	CT	This strategy is an ongoing practice that PDCs continue to perform. Most PDC work involves relationships and partnerships with varied entities.
Regional-3 (Richmond Regional PDC)	Work with state partners and neighboring localities to monitor and implement Next Generation 911 GIS data standards.	PDC, Local GIS Managers	High	Ongoing	Ongoing

Crater PDC 2011 Mitigation Action Plans					
Number in 2011 Plan	Strategy	Responsible Department	Priority	2016 Status	Comments
Regional-1 (Crater)	Leverage regional partnerships (e.g., law enforcement) to better use their data to inform mitigation planning and project development.	Local Emergency Managers	High	CT	This strategy is an ongoing practice that PDCs continue to perform. Most PDC work involves relationships and partnerships with varied entities.
Regional-2 (Crater)	Work with state partners and neighboring regions to expand planning efforts regarding regional strategy for incoming evacuees (topics to include traffic management, shelters, information sharing, etc.).	Local Emergency Managers	Low	CT	This strategy is an ongoing practice that PDCs continue to perform. Most PDC work involves relationships and partnerships with varied entities.
Regional-3 (Crater)	Work with state partners and neighboring localities to monitor and implement Next Generation 911 GIS data standards.	PDC, Local GIS Managers	High	CT	Work has begun and will continue into plan update cycle.