



ANNEX L

MONITORING, EVALUATING, AND UPDATING THE 2010 PLAN

CHATHAM COUNTY MULTI-JURISDICTION PRE-DISASTER HAZARD MITIGATION PLAN

DECEMBER 2015



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This annex to the plan is provided to describe the how the 2010 Chatham Pre-Disaster Hazard Mitigation Plan Update was monitored, evaluated, and updated between 2010 and 2015.

I. 2010 Hazard Mitigation Review Meeting Documentation

Memorandum for Record

DATE: February 24, 2012
TO: Dennis Jones
FROM: David Grotyohann
SUBJECT: 2012 Hazard Mitigation Review Meeting

The 2010 Hazard Mitigation Plan was scheduled for a two year review on Thursday, February 23 at 2:00 PM. There were 74 invitations sent out and 24 accepted to attend the meeting. There were 21 that were in attendance. Please see attached sign in sheets.

Meeting Invitation

"In June 2009, CEMA implemented the 5-Year review and update of the Chatham County Multi-Jurisdiction Pre-Disaster Hazard Mitigation Plan of the Chatham County Emergency Operations Plan. The Plan provides a coordinated structure to guide county hazard mitigation efforts and investments in the coming years. The purpose of the plan is to consolidate, collate and organize data from the Chatham County Emergency Management Agency (CEMA) capabilities assessment and analysis of existing conditions and to make Chatham County eligible for federal hazard mitigation grant programs such as: Pre-Disaster Mitigation (PDM), Flood Mitigation Assistance (FMA), and the Hazard Mitigation Grant Program (HMGP).

You have been identified as a participant in one or more of the planning meetings in 2009 or someone that would be interested. The Plan is due for periodic review and a meeting has been scheduled on Thursday, February 23rd at the CEMA Annex EOC beginning at 2:00 PM. I have attached a link to the CEMA Website for your review of the Plan in advance to this meeting. Please take time to familiarize yourself with the Plan and provide an update on the Mitigation Actions that start in Chapter 4 on Page 115. An Outlook Calendar invitation will be emailed separately.

Meeting

The meeting started at approximately 2:10 PM. The Hazard Mitigation Plan was displayed as we went down each Action Step starting on Page 115. The list of Action Steps was reviewed with the Responsible Representatives from throughout the county. If an agency was not present, that Action Step was identified as "No Report" during the meeting. Most responses were "No Change", "In Progress", "On-going" or "Completed". The meeting was adjourned at 3:15 PM.

Report

An Excel Spreadsheet was compiled to reflect the 2012 Update. The report was completed on Wednesday, February 29th. Those that were not present and Action Steps documented as no report were sorted. This list was forwarded by email to the appropriate Point-Of-Contact at 11:17 AM and given an opportunity to respond by Thursday, March 1 at 3:00 PM.

*On Thursday, February 23rd, CEMA held a meeting to conduct the periodic review of the Pre-Disaster Hazard Mitigation Plan. The information below was not updated at this time. Could



Chatham County Multi-Jurisdiction Pre-Disaster Hazard Mitigation Plan Action Step Matrix

2012 HMP - Action Steps by Hazard Update		Bloomfield	Chatham County	Garden City	Poker	Port Wentworth	Savannah	Thickwood	Tybee Island	2012 Update
Coastal Storms	1.1.1 Harden windows at the Sav Civic Center						X			No report
Coastal Storms	1.1.2 Harden pump stations to increase wind resistance	X					X			Add CC. No change.
Coastal Storms	1.1.3 Assist Tybee Island Nursing Home in applying for a hardening project	X							X	New Owner, private. No change.
Coastal Storms	1.1.4 Conduct studies to harden Tybee Island Lighthouse and Fort Screven	X							X	New Owner, private. No change.
Coastal Storms	1.1.5 Relocate the Southside radio site					X				No change.
Coastal Storms	1.1.6 Harden structures at county CFA and critical workforce shelters	X								No change.
Coastal Storms	1.1.7 Harden Sav Hilton Head International Airport					X				No change.
Coastal Storms	1.1.8 Harden all historic and cultural buildings	X	X	X	X	X	X	X	X	No change.
Coastal Storms	1.1.9 Harden buildings and Hangers Chatham County Mosquito Control building	X								No change.
Coastal Storms	1.1.10 Harden Citizens Service Center	X								No change.
Coastal Storms	1.1.11 Harden planned storage shed at Chatham County Mosquito Control building	X								One Capital Projects List
Coastal Storms	1.1.12 Anchor membrane roof at Chatham County Mosquito Control building	X								No change.
Coastal Storms	1.1.13 Anchor membrane roof at Chatham County Annex	X								Completed.
Coastal Storms	1.1.14 Secure communications dish at Chatham County Annex	X								Completed.
Coastal Storms	1.1.15 Replace roll up doors with hurricane rated doors at Chatham County Annex	X								No change.
Coastal Storms	1.1.16 Bracing or removal of awnings at Chatham County Annex	X								No change.
Coastal Storms	1.1.17 Window protection for windows at Montgomery Street Courthouse	X								No change.
Coastal Storms	1.1.18 Anchor HVAC units on roof at Montgomery Street Courthouse	X								No change.
Coastal Storms	1.1.19 Harden windows at Montgomery Street Courthouse	X								No change.
Coastal Storms	1.1.20 Replace/harden windows at CNT Building	X								No change.
Coastal Storms	1.1.21 Bracing or removal of awning at CNT Building	X								No change.
Coastal Storms	1.1.22 Increase wind load of roof at CNT Building	X								Completed.
Coastal Storms	1.1.23 Harden doors, load path in tech room at CNT Building	X								No change.
Coastal Storms	1.1.24 Bracing or removal of awnings at Citizens Service Center	X								No change.
Coastal Storms	1.1.25 Replace doors at Citizens Service Center with hurricane rated doors	X								No change.
Coastal Storms	1.1.26 Strengthen window A/C unit housing at Citizens Service Center	X								No change.
Coastal Storms	1.1.27 Replace wooden power poles at Citizens Service Center with span concrete poles	X								No change.
Coastal Storms	1.1.28 Replace bay door at Citizens Service Center with a hurricane rated bay door	X								No change.
Coastal Storms	1.1.29 Anchor HVAC systems at Citizens Service Center with hurricane rated stands	X								No change.
Coastal Storms	1.1.30 Window protection and replace bay door at the elections room in the Citizens Service Center	X								No change.
Coastal Storms	1.1.31 Provide window protection for the I & D Water Plant					X				No report.
Coastal Storms	1.1.32 Improve attachment/anchoring of rooftop satellite at I & D Water Plant					X				No report.
Coastal Storms	1.1.33 Replace walkway between chemical storage building and main building at I & D Water Plant					X				No report.
Coastal Storms	1.1.34 Harden new storage building at I & D Water Plant					X				No report.
Coastal Storms	1.1.35 Harden all metal buildings at I & D Water Plant					X				No report.
Coastal Storms	1.1.36 Replace doors and roll up doors I & D Water Plant					X				No report.
Coastal Storms	1.1.37 Replace existing fuel building I & D Water Plant					X				No report.
Coastal Storms	1.1.38 Replace roll up doors of centrifuge building at I & D Water Plant					X				No report.
Coastal Storms	1.1.39 Replace roll up door of generator building at I & D Water Plant					X				No report.
Coastal Storms	1.1.40 Replace doors to electrical building at I & D Water Plant					X				No report.
Coastal Storms	1.1.41 Harden building at Kayco Pump Station					X				In floodzone. No change.
Coastal Storms	1.1.42 Harden main doors and windows at Sav Civic Center					X				No report.
Coastal Storms	1.1.43 Incorporate impact resistant glass/hurr rated doors into replacement of 2nd flr windows/double doors Sav Civic Ctr					X				No report.
Coastal Storms	1.1.44 Harden doors and access points to arena at Sav Civic Center					X				No report.
Coastal Storms	1.1.45 Replace back bay doors at Sav Civic Center					X				No report.
Coastal Storms	1.1.46 Replace front door at SCMPD Bks					X				Replaced 12/2011. Completed.
Coastal Storms	1.1.47 Increase wind load of sloped roof at SCMPD Bks					X				No report.
Coastal Storms	1.1.48 Harden window units at Sav Fire Department					X				No report.
Coastal Storms	1.1.49 Clear trees surrounding proposed storage shed site at Chatham County Mosquito Control Building	X								No change.
Coastal Storms	1.1.50 Construct housing to provide protection for fuel pumps at Chatham County Mosquito Control Building	X								No change.
Coastal Storms	1.1.51 Cut back trees behind building at CNT Building	X								On going.



Chatham County Multi-Jurisdiction Pre-Disaster Hazard Mitigation Plan Action Step Matrix

2012 HMP - Action Steps by Hazard Update		Bloomington/Chatham County	Garden City	Port Wentworth	Swainsboro	Tybee Island	2012 Update
Coastal Storms	1.1.52 Purchase generator for Citizens Service Center	X					No change
Coastal Storms	1.1.53 Increase wind load of roof on older portion of Citizens Service Center	X					No change
Coastal Storms	1.1.54 Install accordion shutters to protect glass or fog building at Citizens Service Center	X					No change
Coastal Storms	1.1.55 Improve attachment of flat roof at I & D Water Plant			X			No report
Coastal Storms	1.1.56 Provide weather safe access to the generator building at I & D Water Plant			X			No report
Coastal Storms	1.1.57 Increase wind load of roof for chemical storage building at I & D Water Plant			X			No report
Coastal Storms	1.1.58 Improve anchoring of SCADA equipment on roof at I & D Water Plant			X			No report
Coastal Storms	1.1.59 Additional mechanical fastening for roof over bathroom section at Sav Civic Center			X			No report
Coastal Storms	1.1.60 Increase wind load of arena roof at Sav Civic Center			X			No report
Coastal Storms	1.1.61 Housing for new generator at Sav Civic Center			X			Completed
Coastal Storms	1.1.62 Harden r/g/rap roof over pillars of Sav Civic Center			X			No report
Coastal Storms	1.1.63 Harden and maintain historic character at SCMPD Brks			X			No report
Coastal Storms	1.1.64 Secure window A/C units at SCMPD Brks			X			No report
Coastal Storms	1.1.65 Increase wind load of flat roof at SCMPD Brks			X			No report
Coastal Storms	1.1.66 Bracing on garage doors of Sav Fire Department			X			No report
Coastal Storms	1.1.67 Water proof/windproof generator housing building at I & D Water Plant			X			No report
Coastal Storms	1.1.68 Debris protection for clarifiers/filters at I & D Water Plant			X			No report
Coastal Storms	1.1.69 Upgrade seal on doors of Sav Fire Department, or replace with hurricane rated doors			X			No report
Coastal Storms	1.1.70 Replace wood paneling closures at Sav Fire Department			X			No report
Coastal Storms	1.1.71 Replace roofing door at Sav Fire Department with a hurricane rated door			X			No report
Coastal Storms	1.1.72 Replace downtown Sav power poles with spig concrete poles	X		X			No change
Coastal Storms	1.1.73 Harden Garden City Hall		X				No change
Coastal Storms	1.1.74 Harden the Garden City Recreation Department Gymnasium		X				No change
Coastal Storms	1.1.75 Provide window protection, such as shutters, for the windows at City Hall		X				No change
Coastal Storms	1.1.76 Install generators at all fire stations		X				Half of stations completed.
Coastal Storms	1.1.77 Install automatic switchovers for generators including City Hall		X				In progress
Coastal Storms	1.1.78 Harden boat launch/ramp at Haulhan Landing near Haulhan Bridge			X			No change
Coastal Storms	1.2.1 Install public announcement systems on Tybee Island	X	X	X	X	X	No plans. Closed.
Coastal Storms	1.2.2 Encourage residents to purchase NOAA weather radios	X	X	X	X	X	In progress
Coastal Storms	1.3.1 Amend County Building Code	X	X	X	X	X	No change
Coastal Storms	1.3.2 Review building codes	X	X	X	X	X	No change
Coastal Storms	1.3.3 Harden new school construction designated as critical workforce shelters and post-disaster recovery	X					No change
Coastal Storms	1.3.4 Incorporate resilient design standards in any future new emergency operations center (EOC) construction	X					No change
Coastal Storms	1.3.5 Increase wind load of new public works addition and new communications tower			X			No change
Coastal Storms	1.4.1 Relocate fiber cable supporting the County EOC to below ground	X	X	X	X	X	Priority 1 when project funded.
Coastal Storms	1.4.2 Explore methods for adding redundancy to computer networking housed in fire station			X			In progress
Coastal Storms	1.5.1 Upgrade generators at pump stations					X	Plan to rent generators.
Coastal Storms	1.5.2 Add redundancy to utility lines into Tybee Island					X	Completed.
Coastal Storms	1.5.3 Purchase portable generators at the three Tybee Island gas stations					X	1 Station supplies em veh
Coastal Storms	1.5.4 Acquire portable generator for City Hall	X					No change
Coastal Storms	1.5.5 Acquire portable generator for Public Works Maintenance Building	X					Completed
Coastal Storms	1.5.6 Acquire portable generator for water well				X		No change
Coastal Storms	1.5.7 Shutter windows at town hall and fire station				X		No change
Coastal Storms	1.5.8 Protect generator at CH7 Building			X			In progress
Coastal Storms	1.5.9 Install Generators at Rogers St and Skinner St water wells			X			No change
Coastal Storms	2.1.1 Provide public education regarding center-flow system	X	X	X	X	X	Completed
Coastal Storms	2.1.2 Include protection information in County outreach materials	X	X	X	X	X	Completed
Coastal Storms	2.1.3 Provide outreach to Hispanic community regarding evacuation	X	X	X	X	X	No change
Coastal Storms	2.2.1 Provide disaster and evacuation education to summer renters	X	X	X	X	X	No change
Coastal Storms	3.1.1 Persuade CC Eng to complete a Public Works drainage SOP to include recovery info	X	X	X	X	X	Completed
Coastal Storms	3.1.2 Persuade utility departments to inspect and remove trees that threaten utility infrastructure and CFS	X	X	X	X	X	Completed



Chatham County Multi-Jurisdiction Pre-Disaster Hazard Mitigation Plan Action Step Matrix

2012 HMP - Action Steps by Hazard Update		Blount County	Chatham County	Wayne County	Polk County	Port Wentworth	Savannah	Trenton	Tybee Island	2012 Update
Coastal Storms	3.2.1	Require nursing homes and assisted living facilities plan that includes evacuation	X	X	X	X	X	X	X	Completed
Coastal Storms	3.2.2	Develop directory of cultural & historical facilities	X	X	X	X	X	X	X	Completed
Coastal Storms	3.3.1	Conduct evacuation exercises with and for local EMA personnel and private citizens	X	X	X	X	X	X	X	Completed
Coastal Storms	4.1.1	Prioritize CFI, including cultural and historical, for the Purpose of this Study	X	X	X	X	X	X	X	Completed
Coastal Storms	4.1.2	Evaluate CFI, including cultural and historical, and recommend appropriate wind retrofit protection measures	X	X	X	X	X	X	X	No change
Coastal Storms	4.1.3	Implement actions from engineering studies	X	X	X	X	X	X	X	No change
Coastal Storms	4.1.4	Engineering inspection of roof on recreation building at Citizens Service Center	X							No change
Coastal Storms	4.1.5	Engineering study of generator housing building at I & D Water Plant to determine airflow required for safe ops				X				CoS, not CC. No report
Coastal Storms	4.1.6	Engineering study to determine airflow needs and shutter needs for vents at Kayton Pump Station				X				CoS. Hardware. No change
Coastal Storms	4.2.1	Work with facility managers to develop inventory lists, including cultural and historical	X	X	X	X	X	X	X	Assigned to SHER
Coastal Storms	4.2.2	Develop comprehensive database	X	X	X	X	X	X	X	In progress
Tornado	5.1.1	Construct safe rooms in pump stations					X			In Floodzone. No change
Tornado	5.1.2	Assist Tybee Nursing Home in Applying to Construct safe rooms							X	No change
Tornado	5.1.3	Retrofit any difficult to evacuate CFI	X	X	X	X	X	X	X	No change
Tornado	5.1.4	Harden or replace temporary fire stations that are currently in use								No report
Tornado	5.1.5	Harden/Upgrade roof at prison	X							No change
Tornado	5.1.6	Replace/harden HVAC stands at the prison to withstand xxx mph winds	X							No change
Tornado	5.1.7	Bury fiber connection from courthouse to the mosquito control building and install generator	X							No change
Tornado	5.1.8	Safe room in Administrative Building at Chatham County Mosquito Control Building	X							No change
Tornado	5.1.9	Add safe room at Chatham County Annex	X							No change
Tornado	5.1.10	Enclose/replace structure housing Chlorine tanks at I & D Water Plant				X				CoS, not CC
Tornado	5.1.11	Remove discontinued equipment on ground at Citizens Service Center	X							No change
Tornado	5.1.12	Remove motorcycle dome covering at SCMPD Bldg				X				No report
Tornado	5.1.13	Install tornado safe rooms in three school facilities			X					No change
Tornado	5.2.1	Construct safe rooms for public usage	X	X	X	X	X	X	X	No change
Tornado	5.2.2	Install alternate communications system for public safety	X	X	X	X	X	X	X	No change
Tornado	5.2.3	Require NOAA weather alert radios in daycare facilities	X	X	X	X	X	X	X	In progress
Tornado	5.2.4	Require new communications tower consist to include provision for siren	X	X	X	X	X	X	X	In progress
Tornado	5.2.5	Amend County Building Code to require all trailer parks to build tornado Safe Shelters	X	X	X	X	X	X	X	No change
Tornado	5.2.6	Add safe room to Groves High School		X						No change
Tornado	5.3.1	Amend County Building Code to require Tornado Safe Rooms in new private construction	X	X	X	X	X	X	X	No change
Tornado	5.3.2	Amend County Building Code to require Tornado Safe Rooms in new private construction	X	X	X	X	X	X	X	No change
Tornado	6.1.1	Provide brochures to all hotel and property management	X	X	X	X	X	X	X	Completed
Tornado	6.2.1	Provide brochures for distribution explaining tornado safety procedures and mitigation actions	X	X	X	X	X	X	X	Completed
Tornado	7.1.1	Require day care facilities, NHs, and ALFs to have tornado plans and operable NOAA weather radios	X	X	X	X	X	X	X	Encourage Instead of Require
Tornado	7.2.1	Identify potential funding sources for low-income residents to purchase NOAA radios	X	X	X	X	X	X	X	Completed
Tornado	8.1.1	Prioritize CFI for the purpose of safe room study	X	X	X	X	X	X	X	No change
Tornado	8.1.2	Understate engineering studies to evaluate CFI, including cultural and historical facilities, for safe room needs	X	X	X	X	X	X	X	No change
Tornado	8.1.3	Construct safe rooms as recommended by the study	X	X	X	X	X	X	X	No change
Rainwater Flooding	9.1.1	Work w/GDOT and zoning for future development including road const is regulated to the 100-year floodplain stud					X			No change
Rainwater Flooding	9.1.2	Establish and enforce limitations and restrictions to the development of Flood Areas	X	X	X	X	X	X	X	In progress
Rainwater Flooding	9.2.1	Elevate lift stations above the base flood elevation (BFE) including electrical components	X	X	X	X	X	X	X	No change
Rainwater Flooding	9.2.2	Flood-proof lift stations in repetitive loss areas at Brighton Woods Drive and North Skinner Street				X				No change
Rainwater Flooding	9.2.3	Protect sewer infrastructure from infiltration from flood water and related debris			X					In progress
Rainwater Flooding	9.2.4	Replace / enlarge pipe under railroad tracks at the Governor Trevilten Canal and at I	X			X				No change
Rainwater Flooding	9.2.5	Protect primary transportation route and maintain groundwater flow at Canal Bridge			X					No change
Rainwater Flooding	9.2.6	Elevate Police Department generator and flood proof structure	X							No change
Rainwater Flooding	9.2.7	Promote the acquisition by conservation organizations of flood areas for community parks and recreation	X	X	X	X	X	X	X	No change
Rainwater Flooding	9.2.8	Relocate CFI from Flood Areas	X	X	X	X	X	X	X	No change
Rainwater Flooding	9.2.9	Flood control mitigating street flooding at Bonaventure and Downing and Gigg and Varmon					X			No change
Rainwater Flooding	9.2.10	Protect electrical components for storage bins and fuel pumps at CC MosCon Bldg	X							No change



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2012 HMP - Action Steps by Hazard Update		Bloomington	Chatham County	Greene County	Point	Port Wentz	Swainsboro	Thomson	Waynesboro	2012 Update
Rainwater Flooding	9.2.11 Add HVAC stands at Chatham County Annex	X								No change
Rainwater Flooding	9.2.12 Address water intrusion issue at Sally Port at Montgomery Street Courthouse	X								No change
Rainwater Flooding	9.2.13 Add HVAC stands at courtenarcotics team (CNT) Building	X								No change
Rainwater Flooding	9.2.14 Elevate external HVAC at ground level at I & D Water Plant					X				No report
Rainwater Flooding	9.2.15 HVAC stands at I & D Water Plant					X				No report
Rainwater Flooding	9.2.16 HVAC stands on roof of chemical storage building at I & D Water Plant					X				No report
Rainwater Flooding	9.2.17 Mechanism to prevent water from entering building via basement entrance at Sav Civic Center					X				No report
Rainwater Flooding	9.2.18 Place all mechanical equipment on pedestals at Sav Civic Center					X				No report
Rainwater Flooding	9.2.19 Replace basement sump pumps at Sav Civic Center					X				No report
Rainwater Flooding	9.2.20 Backflow protection for areas at Sav Civic Center					X				No report
Rainwater Flooding	9.2.21 HVAC stands at SCMPD Brix					X				No report
Rainwater Flooding	9.2.22 Seal/replace basement windows to prevent rain entry at SCMPD Brix					X				No report
Rainwater Flooding	9.2.23 Backflow protection at Sav Fire Department					X				No report
Rainwater Flooding	9.2.24 Harden roof over EOC to eliminate vent leak at Chatham County Annex	X								No change
Rainwater Flooding	9.2.25 Eliminate door leak from gutter at Citizens Service Center	X								No change
Rainwater Flooding	9.2.26 Replace Kayton Pump Station building with monolithic dome on a concrete ring foundation					X				Floodzone. No plans to do this.
Rainwater Flooding	9.2.27 Protect elevator shafts in the Montgomery Street Courthouse from water intrusion	X								No change
Rainwater Flooding	9.2.28 Flood proof Pooler Police Department building					X				No change
Rainwater Flooding	9.2.29 Elevate generator between City Hall and Police Department					X				No change
Rainwater Flooding	9.3.1 Mitigation of All structures in the Brighton Woods Repetitive Loss area					X				No change
Rainwater Flooding	9.3.2 Mitigation of All structures along West Whately Street					X				No change
Rainwater Flooding	10.1.1 Public forums to provide mitigation info and all hazards preparedness info	X	X	X	X	X	X	X	X	Completed
Rainwater Flooding	10.2.1 Provide brochures for distribution explaining flooding safety procedures and mitigation actions	X	X	X	X	X	X	X	X	Completed
Rainwater Flooding	10.3.1 Install signage in train trestle area at Anderson Street to indicate water depth					X				No plans to do this.
Rainwater Flooding	11.1.1 Engineering include information in County Mollers regarding permeable concrete and freshwater flooding prevention	X	X	X	X	X	X	X	X	No change
Rainwater Flooding	11.1.2 Improve recurring funding for Public Works maintenance and flood management activities	X	X	X	X	X	X	X	X	No change
Rainwater Flooding	11.2.1 Conduct yearly workshops related to FEMA HazMit Grant programs	X	X	X	X	X	X	X	X	No change
Rainwater Flooding	11.3.1 Provide grants information, planning tools, training, and technical assistance	X	X	X	X	X	X	X	X	No change
Rainwater Flooding	12.1.1 Create a survey/questionnaire for residential rainwater flooding events	X	X	X	X	X	X	X	X	No change
Rainwater Flooding	12.1.2 Disseminate survey/questionnaire and collect information	X	X	X	X	X	X	X	X	No change
Rainwater Flooding	12.2.1 Create a documentation system for rainwater flooding events					X				Completed
Storm Surge	13.1.1 Apply wet flood-proofing to pump stations					X				Floodzone. No plans to do this.
Storm Surge	13.1.2 Improve generator housing at SCMPD Brix					X				No report
Storm Surge	13.2.1 Protect existing sand dunes									X No change
Storm Surge	13.2.2 Build additional sand dunes									X No change
Storm Surge	13.2.3 Regulate dock construction to reduce damage to native marsh grass									No plans to do this.
Storm Surge	14.1.1 Add signage regarding potential storm surge depths	X	X	X	X	X	X	X	X	Completed
Storm Surge	14.1.2 Provide educational handouts to tourists and renters	X	X	X	X	X	X	X	X	No change
Storm Surge	14.2.1 Provide brochures for distribution explaining storm surge safety procedures and mitigation actions	X	X	X	X	X	X	X	X	No change
Storm Surge	15.1.1 Research availability of temporary housing for island residents									X No change
Storm Surge	15.2.1 Conduct workshops related to FEMA hazard mitigation grant programs	X	X	X	X	X	X	X	X	No change
Storm Surge	16.1.1 Prioritize CEs for the purpose of this study	X	X	X	X	X	X	X	X	Completed
Storm Surge	16.1.2 Evaluate CEs and recommend appropriate storm surge retrofit protection measures					X				No change. Add CC.
Storm Surge	16.1.3 Engineering evaluation of foundation for each room/surveillance equipment shed at CNT Building	X								No change. Move to CC. No change.
Storm Surge	16.1.4 Research protection for wells around the city									SHER No change
Storm Surge	16.2.1 Work with facility managers to develop inventory lists	X	X	X	X	X	X	X	X	SHER No change
Storm Surge	16.2.2 Develop comprehensive database	X	X	X	X	X	X	X	X	SHER No change
Storm Surge	16.3.1 Study potential effects on cemeteries	X				X				SHER No change
Storm Surge	16.3.2 Remove records and documents from lower levels of buildings that may be flooded following a storm surge					X				SHER No change
Fire	17.1.1 Prioritize CEs for generators	X	X	X	X	X	X	X	X	Completed
Fire	17.1.2 Ensure generators are purchased for all prioritized CEs	X	X	X	X	X	X	X	X	Completed



Chatham County Multi-Jurisdiction Pre-Disaster Hazard Mitigation Plan Action Step Matrix

2012 HMP - Action Steps by Hazard Update		Bloomfield	Chatham County	Garden City	Pooler	Port Wentworth	Savannah	Thalita/Beaumont	2012 Update
Fire	17.2.1 Code enhancements/handling of planned new fire station/emergency coordination facility	X							No change
Fire	17.3.1 Apply fire resistant clear coat to all historic buildings	X	X	X	X	X	X	X	No change
Fire	17.4.1 Conduct a study to identify fire vulnerabilities of buildings and their contents	X	X	X	X	X	X	X	No change
Fire	17.4.2 Implement projects identified from study	X	X	X	X	X	X	X	No change
Fire	18.1.1 Include information in the County outreach mailer concerning fire protection	X	X	X	X	X	X	X	No change
Fire	18.1.2 Provide brochures to all hotel and property management companies	X	X	X	X	X	X	X	No change
Fire	18.2.1 Provide brochures for distribution explaining fire safety procedures and mitigation actions	X	X	X	X	X	X	X	No change
Fire	18.3.1 Additional hazard mitigation fire department training								No change
Fire	18.3.2 Train fire responders in appropriate salvage operations for collections	X	X	X	X	X	X	X	No change
Fire	19.1.1 wildfire and/or urban-interface fires Focus of inventory/study will be on identifying areas where there exist vulnerable populations or built environment and/or areas where fuel loads and other conditions suggest potential for wildfire risk	X	X	X	X	X	X	X	No change
Fire	19.1.2 Fire suppression system at SCMPD links					X			No report
Fire	19.1.3 Mapping of electrical wiring and comparison of current conditions to current code at SCMPD links					X			No report
Fire	19.2.1 Coordinate fire mitigation efforts with appropriate agencies	X	X	X	X	X	X	X	No change
Hazmat	20.1.1 Utilize Emergency Response System to provide notification of hazardous material incidents	X	X	X	X	X	X	X	Completed
Hazmat	21.1.1 Include information in the County outreach mailer concerning hazardous material protection	X	X	X	X	X	X	X	Completed
Hazmat	21.1.2 Provide educational handouts to tourists and renters	X	X	X	X	X	X	X	No change
Hazmat	21.2.1 Provide brochures for distribution explaining hazardous material safety procedures and mitigation actions	X	X	X	X	X	X	X	No change
Hazmat	22.1.1 Host a hazardous material clean up day to get rid of dangerous house hold chemicals	X	X	X	X	X	X	X	No change
Hazmat	22.1.2 Research potential impacts from materials transported on trucks at I & D Water Plant					X			No change
Hazmat	22.1.3 Remove old/unused storage containers from the property at I&D Water Plant					X			No change
Hazmat	22.2.1 Coordinate hazardous material mitigation efforts with appropriate agencies	X	X	X	X	X	X	X	No change
Hazmat	23.1.1 Work with facility managers to develop inventory lists	X	X	X	X	X	X	X	No change
Hazmat	23.1.2 Develop comprehensive database	X	X	X	X	X	X	X	No change
Terrorism	24.1.1 Utilize vehicle barriers at the Judicial courthouse	X	X	X	X	X	X	X	No change
Terrorism	24.1.2 Addition of vehicle barrier at CNT building	X							No change
Terrorism	24.1.3 Enclose/replace structure housing chlorine tanks at I & D Water Plant					X			No report
Terrorism	24.1.4 Evaluate major interstates in and around Garden City for potential terrorist targets			X					On going
Terrorism	24.1.5 Plan to walk grounds for review of vulnerabilities at regular intervals at CNT Building			X					On going
Terrorism	24.1.6 Institute security measures for exposed pipelines	X							No change
Terrorism	25.1.1 Include information in the County outreach mailer concerning terrorism protection	X	X	X	X	X	X	X	No change
Terrorism	25.1.2 Provide educational handouts to tourists and renters	X	X	X	X	X	X	X	No change
Terrorism	25.2.1 Provide brochures for distribution explaining terrorism safety procedures and mitigation actions	X	X	X	X	X	X	X	No change
Terrorism	26.1.1 Seek available funding to pursue projects at local level	X	X	X	X	X	X	X	On going
Terrorism	26.2.1 Conduct regional training, response, and recovery exercises with appropriate agencies	X	X	X	X	X	X	X	On going
Transportation	27.1.1 Install red light cameras at railroad crossings	X	X	X	X	X	X	X	No change
Transportation	28.1.1 Include information in the County outreach mailer concerning transportation incident protection	X	X	X	X	X	X	X	No change
Transportation	28.1.2 Provide educational handouts to tourists and renters	X	X	X	X	X	X	X	No change
Transportation	28.2.1 Provide brochures for distribution explaining transportation incident safety procedures and mitigation actions	X	X	X	X	X	X	X	No change
Transportation	29.1.1 Ensure responding agencies have proper equipment and training	X	X	X	X	X	X	X	No change
Transportation	29.2.1 Conduct hazardous material transportation accident training, response, and recovery exercises	X	X	X	X	X	X	X	On going
Transportation	30.1.1 Research alternate routes and ways to prevent traffic disruption on Bay Street					X			On going



David Grotzohann

Subject: Hazard Mitigation Meeting
Location: Annex EOC
Start: Thu 2/23/2012 2:00 PM
End: Thu 2/23/2012 4:00 PM
Recurrence: (none)
Meeting Status: Meeting organizer
Organizer: David Grotzohann
Required Attendees: Ahmad Jackson; Alharia Maynard; Anees Farden; Anita Mitchell; Beth Reiter; Bill Hodgins; Bob Schmeizer; Carlisle DeWitt; Caroline Hopkinson; Chuck Voelker; Craig Christopher; Curtis McKeithen; David Roberts; Denlon John - Siv Sanit; Enrie Gizzard; Gamasia Bogus; Godbold, Chief Mike - Tbolt FD; Gregori Anderson; Hank Math; Harvey, Brian - PW; Henry Lewandowski; Herman Fritz; Jackie Carver; Jackie Jackson Teet; Jerrell McNeil; Jim Britt; Jimmy C. Brown; John Kent; Daniels Jones; Jones, Todd - CC Public Health; Juanita Mikell (jmikell@savannahga.gov); Kelly Rothwell; Laplander, Jim - Savannah WI; Lewis Leonard; Mark Walker; Mark Williams; Mary Landers; Matt Saxon; Maureen Burke; Michael Blakely; Morse, Chief Ben - Savannah FD; Paul Hergesell (paulhergesell@southeaststing.com); Perkins, Noel - MPC; poolerdu@hotmail.com; Raines, Rogez - Savannah; Robert Drewry; Russell Moncrief (russell.moncrief@us.army.mil); Schleicher, Diane - Tybee; Scott Cribbs; Scott, Chief Cedric - Savannah FD; s.l. amche; Shawn McNelly; Shawn R. Taber; Sherry Lang; Simmons, Chief Wade - Pooler Fire; Solomon, Deborah - PW FD; Stanley Walthou; Tom McDonald; Tom McIlvaine; Tom Wright; Tyler, Chief Fermin - Bloomingdale FD; Vaughn, Vanessa - Gulfstream; Victoria Godlock; Wallace, BC Curtis - Savannah FD; Wilson, Joe - Tybee PW
Optional Attendees: Nick Batey; Fritz, Hermann M; Sharon Stroman; Quillar, Hubert Mr CIV USA; Curtis Wallace; Sharon Shaver; Ben Morse
Resources: Annex EOC

In June 2009, CEMA implemented the 5-Year review and update of the Chatham County Multi-Jurisdiction Pre-Disaster Hazard Mitigation Plan of the Chatham County Emergency Operations Plan. The Plan provides a coordinated structure to guide county hazard mitigation efforts and investments in the coming years. The purpose of the plan is to consolidate, collate and organize data from the Chatham County Emergency Management Agency (CEMA) capabilities assessment and analysis of existing conditions and to make Chatham County eligible for federal hazard mitigation grant programs such as: Pre-Disaster Mitigation (PDM), Flood Mitigation Assistance (FMA), and the Hazard Mitigation Grant Program (HMGP).

You have been identified as a participant in one or more of the planning meetings in 2009 or someone that would be interested. The Plan is due for periodic review and a meeting has been scheduled on Thursday, February 23rd at the CEMA Annex EOC beginning at 2:00 PM. I have attached a link to the CEMA Website for your review of the Plan in advance to this meeting. Please take time to familiarize yourself with the Plan and provide an update on the Mitigation Actions that start in Chapter 4 on Page 115. An Outlook Calendar invitation will be emailed separately.

Please follow this link to the CEMA Website and review the HAZARD MITIGATION PLAN 102110 –FINAL document at <http://www.chathamemergency.org/general/em-program-organization.php>



ESF-14a HAZARD MITIGATION MEETING - 2/23/12

Name	Organization	Office Phone	Cell Phone	Email
Mike Goodale	GCFD / Munchelolt	912 659-8498	912 429 9844	mgoodale@egacountyga.gov
Robert Drewry	Chatham County PW	912-652-6890	912 661-1352	rdrewry@chathamcountypw.org
Jackie Carver	City of Pooler	912-748-7261	912 661-0824	jcarver@pooler.ga.gov
Toold Jones	RH	912-356-2160	912 2248276	ctjones2@chv.state.ga.us
Shelia Payne	DFCS	912-651-2134	912-396-9384	srpayne@chv.state.ga.us
Marcus McFadden	DFCS	912-651-2210	912-506-0391	marcfadden@chv.state.ga.us
HENRY LECHADOWSKI	M.O. SQUAD CONTROL	912-790-2540	912-429-1680	HLECHAD@CHATHAMCOUNTYGA.GOV
CHUCK VOELKER	FINANCE (CHATHAM)	912 652-7903	912 429-2192	cvoelker@chathamcountyga.gov
NICK BATEY	CHATHAM COUNTY	(912) 652-7351	(912) 604-8055	NBATEY@CHATHAMCOUNTYGA.GOV



ESF-14a HAZARD MITIGATION MEETING - 2/23/12

Name	Organization	Office Phone	Cell Phone	Email
Jimmy Brown	Tybee Island		912-844-3503	jcbrown@tybee.org
Tom WRIGHTS	SAVANNAH MARITIME ASSE		912-429-3350	twrights@chathamnj.com
Jacqueline Campbell	Ft. Stewart	727-1111		jacqueline.Campbell115@us.army.mil
BOB SCHMELZER	DOMINI'S SAVANNAH	904-9833	201-708-0140	BOB@DOMINOSAVANNAH.com
STAN RITAPIS	CHATHAM Co S.O.	652-7630	702-660-3362	stan@chathamcounty.org
Onetha Bonaparte	SCPS Nutrition	395-1327	(912) 308-2117	onetha.bonaparte@scps
Michael Blakey	Chatham Co Eng	652-7314	596-8326	mblakey@chathamco.org



ESF-14a HAZARD MITIGATION MEETING - 2/23/12

Name	Organization	Office Phone	Cell Phone	Email
WADE SIMMONS Noel Perkins	POOLER FIRE SAGIS	748-7012 651-1477	210-2506 527-0460	wssimmons@pooler-ge.gov perkinsno@pooler.org
Dennis Jones	CEMA	201-4506	658-3115	dtjones@chathamcounty.org
MICHAEL BLAKEY	Chatham Co. Engin.	652-7864	596-8506	mblakely@chathamcounty.org



David Grotyohann

From: Robert Drewry
Sent: Friday, February 24, 2012 10:38 AM
To: David Grotyohann
Cc: Dennis Jones
Subject: Hazard Mitigation Plan
Attachments: Tidal erosion control.xls
Contacts: David Grotyohann

David,

I would like to request an addition to the plan to: "Stabilize Causeways from erosion due to tidal storm surges". I have attached a CIP Detail Sheet that explains the project in further detail.

Let me know if you have questions.



CAPITAL IMPROVEMENT PROJECT DETAIL SHEET

A. PROJECT IDENTIFICATION		Board Seat Addressed: <u>II & E</u>	
Department or Agency: <u>Public Works and Park Services</u>	Project Priority: <u>Maintenance</u>	Rank: _____	
Project Name: <u>Total Invasive Control</u>	District: <u>WYFOU</u>		
Location: <u>Various</u>			

B. EXPENDITURE SCHEDULE	
Cost Elements	TOTAL FY 2013 to 2018
Planning, Design, Supervision	50,000
Land Acquisition	0
Site Improvements, Utilities	0
Construction	200,000
Furniture, Equipment	0
Other (ELECT. REPLACEMENT)	0
Total	250,000

C. FUNDING SCHEDULE							
Fund	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	TOTAL FY 2013 to 2018
2020 Fund	50,000	200,000	200,000				450,000
Total	50,000	200,000	200,000				450,000

D. PROJECT INFORMATION	
Description: This project, Insect erosion control and bank stabilization along various causeways on County roads. Work shall include stone apron or gabion piling. Also includes repair of top wall on Gordon Hill near 11 Barken Point.	
Justification: Total effects on causeways is eroding slopes. Eroding slopes will eventually impact roadways that could cut off access to entire neighborhoods.	
Relationship to other plans or projects: _____	

E. ANNUAL OPERATING BUDGET IMPACT	
Additional Staff / Personnel:	0
Annual Salary / Benefits:	0
Operation / Maintenance:	0
Total:	0
Offsetting Revenue / Expense:	0
Classification of Revenue:	0

F. ADDITIONAL INFORMATION	

Funding Source Codes:
 A - Assessments F - Federal Funds P - Private Gifts T - Sales Tax
 B - General Obligation Bonds G - General Funds R - Revenue Bonds U - Unfunded
 D - Donations O - Other Sources S - State Funds



David Grotyohann

From: scott.sherman@gema.ga.gov
Sent: Friday, February 24, 2012 8:35 AM
To: Dennis Jones
Cc: Allen Robinson; David Grotyohann; Kate Underwood; det.jangley@gema.ga.gov
Subject: Re: HazMit Plan Review

Good morning Dennis:

Your e-mail notice is sufficient for notifying GEMA. You will need to maintain documentation of the review, attendees list, and any findings that were made for inclusion in the next required update. I applaud your diligent work in maintaining your Hazard Mitigation Plan.

Thanks,

Scott

Scott S. Sherman
Hazard Mitigation Planner
Georgia Emergency Management Agency
P.O. Box 21864
Statesboro, GA 30460
Office (912) 486-7939
Fax (912) 486-7944
1-800-TRY-GEMA

From: Dennis Jones <djones@chathamcounty.org>
To: Scott Sherman <scott.sherman@gema.ga.gov>
Cc: Allen Robinson <allen.robinson@gema.ga.gov>; David Grotyohann <dgrotyohann@chathamcounty.org>; Kate Underwood <kunderwood@chathamcounty.org>
Date: 02/23/2012 10:02 PM
Subject: HazMit Plan Review

Scott - As required by our 2010 Hazmit Plan Maintenance Schedule, we conducted a bi-annual review today w/approx 34 partners in attendance. Are there any reports required by the State to document the review/update?

Dennis

Customer Service Note: How well did I serve you? <http://www.gema.ga.gov/feedback>

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