

MEMO



ST. TAMMANY PARISH

MICHAEL B. COOPER
PARISH PRESIDENT

Date: July 31, 2020

To: St. Tammany Parish Council Members

From: E. deEtte Smythe, PhD

CC: Gina Hayes, Chief Administrative Officer
Ross Liner, Director
Department of Planning & Development

Re: 2019 Annual Progress Report
St. Tammany Parish Hazard Mitigation Plan Update - 2015

Honorable Council Members:

Resolution C-4348 adopted the *St. Tammany Parish Hazard Mitigation Plan Update - 2015* on May 7, 2015. It was subsequently approved by the State of Louisiana (May 22, 2015) and FEMA (May 12, 2015). The Floodplain Administrator and Development-Engineering staff are the designees to administer Plan Update and prepare a written progress report annually.

This memo submits the annual evaluation report on progress toward implementing the *Plan's* action items for the Mitigation Steering Committee through May 31, 2019. For credit under the Community Rating System, the attached report **must** be presented to the governing bodies of St. Tammany Parish, released to the media and made available to the public. It is included as part of the annual CRS recertification for each participating community.

Copies of the report are available for review at STP Department of Planning & Development, 21454 Koop Drive, Building B, Mandeville, LA 70434 and on the St. Tammany Parish website: www.stpgov.org/floods.



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PUBLIC NOTICE

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For credit under the Community Rating System, this memo will be presented to the governing bodies of St. Tammany Parish, will be distributed to the media and be made available to the public. Copies of the report are available for review at STP Department of Planning & Development, 21454 Koop Drive, Building B, Mandeville, LA 70471 and on the St. Tammany Parish website: www.stpgov.org/floods.

1. Background

The original *St. Tammany Parish Hazard Mitigation Plan* was drafted in 2004, adopted by the Parish Council in 2005, and revised in 2010. The *St. Tammany Parish Hazard Mitigation Plan Update* Steering Committee, in collaboration with the participating jurisdictions, community stakeholders, and the public, drafted the current *St. Tammany Parish Hazard Mitigation Plan Update – 2015*¹ during a series of meetings held throughout 2014. It includes a detailed problem statement, which identified flooding from the numerous riverine sources and storm surge inundation from tropical storms and hurricanes, as the worst of the problems. Storm sewer and yard drainage problems also occur throughout the Parish.

The *Plan* reviews a variety of measures to mitigate potential flooding problems and protect people and property during storm events. Mitigation measures include upgrading the storm drainage system, maintaining rights-of-way, floodproofing, flood insurance, building regulations and public information. Additionally, St. Tammany Parish and incorporated municipalities have adopted and actively enforce zoning, landscaping, greenspace, fill, drainage and building

¹ Unincorporated St. Tammany Parish and the incorporated communities are working on the Hazard Mitigation Plan – 2020 Update. The revision has been approved by GOHSEP and is currently under review by FEMA.

ordinances that address items that could contribute to flooding. The *Plan* recommends 87 action items and 82 recommendations (169 total items) to reduce or prevent flood damage.

2. Review of the *Plan's* Action Items

The 87 action items and 82 recommendations (169 in total) found in Section 4-5, Table 1 of the *St Tammany Parish Hazard Mitigation Update – 2015* were reviewed by the members of the Mitigation Steering Committee. Of the 169 action items, 16 were carried over from the previous Plan update (2010). As of July 31, 2020, significant progress has been made to the 124 projects, action items and recommendations; 41 were completed and four were removed. Communities have completed or are implementing 100% of the *Plan's* recommendations. A Summary of the 2019 community progress is presented below in Table 1. The detailed list of action items and recommendations for St. Tammany Parish communities is attached.

Table 1. Summary of Action Items & Recommendations from the *St. Tammany Parish NHM Plan Update - 2015*

St. Tammany Parish Natural Hazards Mitigation Plan - 2015 Update											
Annual Action Items Progress											
2019 Annual Report											
Community	Number Action Items	Number Program Recommendations	Total Items	New Items (2015 list)	Items Carried Over [1]	Ongoing or Completed at Time of Plan Publication	Total Items	Number Action Items or Recommendations Completed	Number Projects or Recommendations Ongoing or in-Progress	Number Items Removed	Total Annual Items
St. Tammany Parish	27	6	33	26	3	4	33	10	22	1	33
Abita Springs	6	4	10	6	2	2	10	1	9		10
Covington	8	9	17	8	4	5	17	1	16		17
City of Folsom	6	4	10	6	2	2	10	2	8		10
City of Madisonville	6	3	9	6	2	1	9	2	7		9
City of Mandeville	9	24	33	9	1	23	33	15	18		33
City of Pearl River	6	4	10	6	1	3	10	2	8		10
City of Slidell	13	24	37	13		24	37	6	28	3	37
Village of Sun	6	4	10	6	1	3	10	2	8		10
Totals	87	82	169	86	16	67	169	41	124	4	169

[1] Items carried over from 2010 Plan were noted in the 2015 Plan

3. Recommendations of the Mitigation Steering Committee

The Mitigation Steering Committee recommends that the Parish and incorporated municipalities continue to:

- Adopt and enforce the most current building codes and floodplain regulations**

St. Tammany Parish and incorporated municipalities continue to enforce the most current building code (2012 IRC). Additionally, communities will strengthen procedures for enforcing building code and floodplain regulations.

- **Develop a Unified Development Code incorporating the Strategies outlined in the *Plan***

St. Tammany Parish continues to enforce the Development/Planning comprehensive plan and is in the process of revising its Code of Ordinances for improved implementation, clarity and enforcement.

- **Adopt and enforce a comprehensive Flood Damage Prevention Ordinance**

St. Tammany Parish communities are currently enforcing comprehensive Flood Damage Prevention Plans. The Parish is in the process of appealing the 2008 Preliminary Digital Flood Insurance Rate Maps (DFIRM), with the exception of Mandeville. Mandeville adopted its Community Maps on May 16, 2012.

- **Continue development of the St. Tammany Parish Hurricane Preparedness Plan**

The director for the Office of Emergency Preparedness is continuously engaged in maintaining an updated Hurricane Preparedness Plan. The *St. Tammany Parish Multi-Hazard Emergency Operations Plan* will be reviewed to determine when improvements can be made and how to maximize credit under the Community Rating System (CRS).

- **Continue improvement of Community Rating System (CRS) Classes in St. Tammany Parish and Incorporated Municipalities**

Several communities in the Parish have formed a CRS Users Group to facilitate communication among communities and public and to increase awareness of risks and mitigation funding. The City of Covington joined CRS effective 10/01/2017, Mandeville has achieved a CRS Class 6 and unincorporated St. Tammany Parish has maintained a CRS Class 7.

- **Formalize a Comprehensive Drainage Maintenance Plan**

St. Tammany Parish Department of Public Works currently schedules and maintains over 500 miles of drainage infrastructure, 1,212 drainage ditches and 74 detention ponds. The *Drainage System Maintenance SOP Manual* has been updated to reflect the barn areas, responsibilities, frequencies and methods of maintenance. Similar processes are followed by incorporated municipalities in the Parish. Parish communities also continued working together to reduce stormwater and drainage problems that cross corporate boundaries.

- **Commission drainage studies of all St. Tammany Parish watersheds to determine necessities and priorities for further drainage improvements and investigate all funding possibilities.**

St. Tammany Parish and incorporated municipalities continue to aggressively apply for funding to study, prioritize and construct drainage solutions. Additionally, St. Tammany

Parish communities continue active participation in various FEMA grant programs, in particular the HMGP, which has funded multiple regional drainage projects and home elevations. Finally, the State of Louisiana has received \$1.2 Billion in its *LA Watershed Initiative* to supply tools for watershed management and protection. Tools include stream gauges on vulnerable reaches, updated LIDAR and modeling of the watersheds in the state. These tools will be invaluable in the property protection and development of the communities in St. Tammany Parish.

- **Harden Critical Facilities and Construct Safe Rooms**

Communities will continue to harden critical facilities and facilities housing sensitive populations including the construction of safe rooms to protect critical personnel during hazard events. St. Tammany Parish has plans to construct a regional EOC that will also embed the NOAA-NWS. Plans are being completed and funding is being sought. Communities will add generators to sewer lift stations and critical facilities and implement Wind Retrofit programs as needed.

- **Implement an Active Public Education and Outreach Program**

St. Tammany Parish communities have created hazard pages on their respective websites to increase public awareness of hazards, hazardous areas and storm preparation. Communities also distribute public awareness information regarding flood hazards, SFHA's and potential mitigation measures using the local newspapers' public service advertising; meetings with schools and neighborhood organizations; distribution of materials at retailers, libraries, City Halls and Administration buildings; and through social media.

- **Implement an Urban Forestry Program**

St. Tammany Parish and incorporated municipalities have implemented an urban forestry program modeled on the criteria of the Tree City USA. Tree canopy assists in mitigating flooding through evapotranspiration, improves water quality, lowers temperatures, and provides habitat and quality of life for residents. St. Tammany Parish's parishwide Adopt-A-Pond program is working with the St. Tammany Parish School Board and the Archdiocese, USFWS, LA SeaGrant, LSU AgCenter, and OMNI Plastics to engage students in tree planting, water quality testing and ecological assessments. In 2019, student volunteers planted ~3000 trees.

Attachment

St. Tammany Parish Natural Hazards Mitigation Plan - 2020 Update
Annual Action Items Progress

Mitigation Actions

Action	Action Description	Funding Source	Target Completion Date	Responsible Party, Agency, or Department	Hazard	Goal	Status
Mitigation Actions for St Tammany Unincorporated							
STP1: Eddins Canal	Improve and existing pond and storm water conveyance in Eddins Canal, improving subsurface conveyance within the subdivision to Eddins Canal and adding an outfall at Heather Drive to the W15 Channel.	FEMA/HMPG	Ongoing	St Tammany Parish/ Department of Public Works-Engineering	Flooding, Tropical Cyclone	1,2,4,6,7	Waiting on FEMA/ GOHSEP to approve Phase 2 of this HMGP project so we can acquire the easement (which is critical to the project), finalize design, then put out for bids.
STP2: Cloverland Drainage	Improve drainage of Tag-a-long Creek in the Cloverland Acres Subdivision area. Will require acquisition and clearing of land to develop an overflow canal.	FEMA/HMPG	Phase 1- Complete; Phase 2- 2020	St Tammany Parish/ Department of Public Works-Engineering	Tropical Cyclone, Flooding	1,4,6	This project is dead due to increased water levels found in study.
STP3: Bayou Chinchuba Detention Pond Retrofit	Retrofitting the existing Bayou Chinchuba pond to increase water quality function.	FEMA/HMPG	COMPLETED	St Tammany Parish/ Department of Public Works-Engineering	Tropical Cyclone, Flooding	1,2	COMPLETED
STP4: Safe Room Project	The project will include design and construction for Multi-use Facility and Safe Room.	FEMA/HMPG	Ongoing	St Tammany Parish/ Facilities Management	Tornado, wind	1,2,3	Plans are >90% complete, but NOAA will also be embedded at the EOC and need 12,000 ft2. Plans are on-hold until NOAA's team is finalized. Need additional funding for plan revisions/review and construction.
STP5: Elevation of Severe Repetitive Loss and Repetitive Loss Structures	Currently (2/28/2019) there are 3,508 properties listed on FEMA's SRL/RL list for the entire Parish. Properties to be mitigated will be prioritized based on the SRL / RL. There are 2,221 in unincorporated STP. Of these, 473 have been mitigated, 75 are in the grant process and funded for elevation, leaving 1673 yet to be mitigated.	FEMA HMPG	Ongoing	St Tammany Parish/ Grants Department	Tropical Cyclone, Flooding	1,4,6,7	Ongoing
STP6-STP17: South Slidell Levee System Projects	STP6: Segment 1L, STP7: Segment 05, STP8: Segment 06, STP9: Segment 07, STP10: Segment 08, STP11: Segment 09, STP12: Segment 10, STP13: Segment 11, STP14: Segment 12, STP15: Segment 13, STP16: Segment 14, STP17: Segment 15. The benefit is to provide 100 year flood protection for a large portion of the Parish and Slidell area, greatly reducing property flood loss as well as injuries and deaths.	Federal, State, Local, Capital Outlay	2025	St Tammany Parish	Tropical Cyclone, Flooding, levee failure	1,2,3,4,5,6,7	Arrangements are being made for CPRA to contract out the design of segments 6 & 7. The other segments are included in the St Tammany Coastal Protection Project feasibility study, which is about 75% complete and being conducted by Neel-Schaffer, Inc.
STP18: Schneider Canal – SELA	The proposed project includes construction of a T-wall between two existing levees (segment 2A and Oak Harbor levees) with a sluice gate for each of the existing six pumps to discharge through. This will provide greater flood protection to the pump station and its protected area.	FEMA, USACE, State, Local	Ongoing	St Tammany Parish/ Department of Public Works-Engineering	Tropical Cyclone, Flooding, Levee Failure	1,4,6,7	The Schneider Canal Fronting Protection plans and specs were completed and approved by CPRA (funding agency) in 2015.
STP19 East St Tammany Storm Protection	Project will mitigate the damage caused by the construction of the south Slidell Schneider Canal Levee; it will extend storm surge protection to the communities south of the Schneider Canal levee including the community of Eden Isle with over 7,000 residents.	FEMA HMPG, Other Federal Funds	2025	St Tammany Parish	Tropical Cyclone, Flooding	1,4,7	See "South Slidell Levee System Projects" above
STP20 FEMA/LAMP DFIRM	The STP LAMP program will collaborate with FEMA to characterize the levee reaches in the parish, gather all available data, determine additional data needs that are critical for certification, and procure data.	Federal, State, Local	Ongoing	St Tammany Parish	Tropical Cyclone, Flooding, levee failure	1,5	After many years trying to resolve still water appeals with FEMA, HNTB was hired and began 11/4/19 to assist parish through FEMA appeals and LAMP process. FEMA agrees, although our appeal was denied, we were not given enough information to properly present the appeal and is willing to work with us to revise the model and maps.
STP21: W-14 Canal - SELA	Design and construction of the Initial Robert Boulevard Detention Pond, West Diversion Detention Pond and Channel Improvements.	FEMA, USACE, State, Local	Ongoing	St Tammany Parish/ Department of Public Works-Engineering	Tropical Cyclone, Flooding	1,4,6	SELA W-14 project is dead. However, there is an HMGP project called "Fritchie Marsh Hydrolic Restoration (W-14)" that includes widening the W-14 from Fremaux to Daney St. Waiting on FEMA Phase 2 (construction) funding to be approved.
STP22: Hardening of Critical Facilities	Identify and hardening of Critical Facilities	FEMA, HMPG	Ongoing	St Tammany Parish	Tropical Cyclone, wind, hail, tornado	1,2,3,	Installed window screens at EOC & Tyler; generators at all shelters. Need additional funding for generators at new EOC/Safe Room.
STP23: Acquisition	Give special attention to repetitively flooded areas or areas susceptible to other hazards by Identification and acquisition of land and/or properties to mitigate against future damages, lives and property lost.	FEMA, HMPG	Ongoing	St Tammany Parish	Coastal Erosion, Dam Failure, Levee Failure, Flooding, Tropical Cyclone, Wildfire, Termites	1,3,4,5,6	Ongoing
STP24: Storm Water Detention Ponds	Ponds will remove a portion of the storm water runoff from the channels, thus reducing peak flows. Locations: Abita River, Big Branch, Bayou Bonfouca, Bayou Lacombe LA 434, Belair North, Belair South, East Fork Little Bogue Falaya, Little Bogue Falaya, La Tice, Robert Road, Upper Tchefuncte, Venchy Branch, W-14 West Diversion East	FEMA, State, Local	Ongoing	St Tammany Parish	Tropical Cyclone, Flooding	1,2,7	Tenet pond - completed 12/3/19. Ben Thomas pond is bundled with the Eddins Canal project, so we are waiting on FEMA to approve Ph2. Then Ben Thomas will be ready to bid. The Venchy Branch - Bogue Falaya project application to be submitted for Round 1 LWI funding. Raiford Oaks project, which will increase conveyance at the outfall by upgrading the receiving stream; thereby, reducing flooding downstream of the Raiford Oaks subdivision's detention pond. Plans are in design for that one now and should be finished by 12/31/2020, so completion projected in 2021.
STP25: Wastewater Subdivision Project	285 unsewered neighborhoods throughout the Parish (by drainage basin). Requires Installation of a gravity sewer collection system and pump station in each neighborhood	FEMA, EPA, State, Local	Ongoing	St Tammany Parish/ Department of Public Works-Engineering	Flooding	1,2	Ongoing
STP26: Oak Harbor Elevation	Raise Oak Harbor Blvd where it goes over the levee near HWY 11. Currently the road height is lower than the adjacent levee and doesn't meet current USACE design standards for a road crossing a levee.	Local	COMPLETED	St Tammany Parish	Flooding, Tropical Cyclone	1,2,3,4	COMPLETED
STP27: HWY 11 Road Raising	HWY 11 will be raised from the current elevation of 9' to an elevation of 18' at the crest.	DOTD, Local	COMPLETED	St Tammany Parish	Flooding, Tropical Cyclone	1,2,3,4	COMPLETED
STP28: Lower W15 Area Drainage	Provide localized improvements by improving channel conveyance and widening of the existing W-15 main canal and placing storage within the Basin to lower the tail water condition placed on the Lower W15 subdivisions	FEMA/HMPG	Ongoing	St Tammany Parish/ Department of Public Works-Engineering	Flooding	1,2,3,4,6,7	The 54 acre Tenet pond was completed 12/3/19. Widening of W-15 along French Branch Estates will bid in 2020. The Diversion Canal connecting the W-15 to the new Tenet pond directly is awaiting FEMA funding, then design contract will be procured.
STP29: HMPG Lift Stations- Upgrades and Elevations	Elevation of 10 electrical control panel boxes located in flood-prone areas to prevent disruption of operation due to inundation.	FEMA/HMPG	Ongoing	St Tammany Parish/ Department of Public Works-Engineering	Flooding, Tropical Cyclone	6	Project cancelled due to low BCA
STP30: Coastal MP St Tammany Shore	The West St. Tammany Shoreline Protection project is a 24,773 linear foot project. The goal of this project is the restoration of 15,677 feet of shoreline and the protection of 9106 feet shoreline.	FEMA, CPRA, EPA, State, Local	Ongoing	St Tammany Parish/ Department of Public Works-Engineering	Coastal Erosion	1,4,5	Ongoing. Modeling conducted by CPRA. Project recommended in LA's 2017 Coastal Master Plan (CPRA) to proceed to E&D. Project picked up by CWPPRA for E&D (starting soon).
STP31: Coastal MP Guste Isle	Guste Island Marsh Creation project is a 685 acre marsh creation project. The goal of this project is the restoration of 651 acres of marsh as well as the nourishment of 34 acres of stressed marsh land.	FEMA, CPRA, EPA, State, Local	Ongoing	St Tammany Parish/ Department of Public Works-Engineering	Coastal Erosion	1,4,5	Ongoing. Modeling conducted by CPRA. Project recommended in LA's 2017 Coastal Master Plan (CPRA) to proceed to E&D. Project picked up by CWPPRA for E&D (starting soon).
STP32: Coastal MP Bayou Cane	The Bayou Cane Marsh Creation project is a 4,117 acre marsh creation project. The goal of this project is the restoration of 850 acres of low salinity marsh as well as the nourishment of 3,293 acres of stressed marsh land.	FEMA, CPRA, EPA, State, Local	Ongoing	St Tammany Parish/ Department of Public Works-Engineering	Coastal Erosion	1,4,5	Ongoing. Modeling conducted by CPRA. Project recommended in LA's 2017 Coastal Master Plan (CPRA) to proceed to E&D. Project picked up by CWPPRA for E&D (starting soon).
STP33: Coastal MP Faciane Canal	The Faciane Canal Marsh Creation project is a 2,853 acre marsh creation project. The goal of this project is the restoration of 1,997 acres of low salinity marsh as well as the nourishment of 630 acres of stressed marsh land.	FEMA, CPRA, EPA, State, Local	Ongoing	St Tammany Parish/ Department of Public Works-Engineering	Coastal Erosion	1,4,5	Ongoing. Modeling conducted by CPRA. Project recommended in LA's 2017 Coastal Master Plan (CPRA) to proceed to E&D when funding is available.
STP34: Coastal MP Bayou Lacombe	The Bayou Lacombe Marsh Creation project is a 3,114 acre marsh creation project. The goal of this project is the restoration of 623 acres of low salinity marsh as well as the nourishment of 2,336 acres of stressed marsh land.	FEMA, CPRA, EPA, State, Local	Ongoing	St Tammany Parish/ Department of Public Works-Engineering	Coastal Erosion	1,4,5	Ongoing. Modeling conducted by CPRA. Project recommended in LA's 2017 Coastal Master Plan (CPRA) to proceed to E&D when funding is available.
STP35: Coastal MP Fritchie	The Fritchie North Marsh Creation project is a 4,395 acre marsh creation. The goal of this project is the restoration of 2,417 acres of marsh as well as the nourishment of 1,997 acres of stressed marsh land.	FEMA, CPRA, EPA, State, Local	Ongoing	St Tammany Parish/ Department of Public Works-Engineering	Coastal Erosion	1,4,5	Ongoing
STP36: Riverwood Drainage Study	Construction of a parallel drainage line with additional catch basins along Laurelwood Drive, Magnolia Lane and Crapemyrtle Road in Riverwood Subdivision.	Statewide Flood Control	2021	St Tammany Parish/ Department of Public Works-Engineering	Flooding	1,2,3,4	Phase 1 done, Phase 2 bids were opened 1/3/20 and the parish is in contracting with the lowest responsive bidder.

Action	Action Description	Funding Source	Target Completion Date	Responsible Party, Agency, or Department	Hazard	Goal	Status
STP37: Mitigation Public Outreach Program	Enhance the public outreach programs for the parish and all jurisdictions by increasing awareness of risks and safety as well as providing information on high risk areas. Educating citizens on proper mitigation efforts will create resiliency within the parish	FEMA, HMPG	COMPLETED	St Tammany Parish	Coastal Erosion, Dam Failure, Levee Failure, Flooding, wind, lightning, hail, Tornado, Tropical Cyclone, Wildfire, Termites, Fog	1,7	COMPLETED. Parish Council adopted the Program for Public Information (PPI) in 2016 and PPI Annual Report 2017.
STP38: Reconstruct Fire Station #11	Raise the living quarters, offices, operations room, and equipment rooms above St. Tammany Parish's DFE while leaving the fire trucks and vehicles at grade level but indoors to protect them from high wind and windblown debris	FEMA, HMPG	2021	St Tammant Fire Protection District No. 1	Tropical Cyclone, wind, Flooding	1,2,3,4,6	STFD is currently selecting an architect for Fire Station 11 (Central Fire Station) in Olde Towne on Bouscaren Street. The existing building should be demolished and new bldg construction begun end of 2020 or beginning of 2021.
Fritchie Marsh Hydrolic Restoration	Widening approximately 5650 ft of the W-14 canal from the south side of Gause Blvd to Daney St. Canal would be de-snagged and cleared of vegetation and debris. Construction of a ~31acrea detention pond	HMGP; STPG	ongoing	St. Tammany Parish; Sterling Properties	Flooding	1,2,3,4,6,7	This project includes widening the W-14 from Fremaux to Daney St. - see STP21 above. Waiting on FEMA Phase 2 (construction) funding to be approved. Permitting completed. CEA for the pond with Sterling Properties is being recorded
Little Bayou Castine	This project involves channel improvements to Little Bayou Castine, culvert improvements to efficiently convey water to Little Bayou Castine, and a pond at the end of Nelson Street. The intent is to reduce the risk of house flooding for the Woodlands Subdivision, Woodlands Terrace Subdivision, Marigny Trace Subdivision, Trailwoods Subdivision, Casa Bella Subdivision, Grand Terre Subdivision, Emerald Pines Court, Thrush Drive, and Eola Street.	HMGP	ONGOING	St. Tammany Parish	Flooding	1,2,3,4,6,7	Project restructured to remove the work within The Woodlands (private) Subdivision. Waiting on approval from council on additional money awarded by FEMA to redo the BCA, design and permitting.
Based on BCEGS findings, the Permits Department will strengthen procedures for enforcing building code and floodplain regulations	N/A	Staff Time	COMPLETED	Department of Permits and Regulatory, St Tammany OHSEP, Cultural and Governmental Affairs	Tropical Cyclone, wind, Flooding, Tornado, Dam Failure, Levee Failure, Termites	N/A	COMPLETED
Replace standard building code with new State Uniform Construction Code	N/A	Staff Time	COMPLETED	Department of Permits and Regulatory	Tropical Cyclone, wind, Flooding, Tornado, Dam Failure, Levee Failure, Termites	N/A	COMPLETED
Community Rating System—The Parish did not apply for a class improvement, but is expected to move from class 9 to an 8 based on the results of 2008 cycle verification visit	N/A	Staff Time	COMPLETED	Department of Permits and Regulatory	Tropical Cyclone, Flooding,	N/A	COMPLETED. St. Tammany Parish achieved a CRS class 7 in 2009 and has maintained it to present. Next Cycle Visit is October 29, 2019.
Evaluate properties to determine if they need to be retrofitted or modified to protect them from hazards	N/A	Local	COMPLETED	St Tammany OHSEP	Tropical Cyclone, Flooding, wind, lightning, hail, Tornado	N/A	COMPLETED
Parish will implement an urban forestry program modeled on the criteria of the Tree City USA program	N/A	Staff Time	COMPLETED	Department of Permits and Regulatory	Tropical Cyclone, wind, Tornado	N/A	COMPLETED
St. Tammany Parish Multi-Hazard Emergency Operations Plan will be reviewed to determine when improvements can be made and how to maximize credit under the Community Rating System	N/A	Staff Time	COMPLETED	St Tammany OHSEP	Tropical Cyclone, Flooding, wind, lightning, hail	N/A	COMPLETED
Goals of the HMP 2015 Update are found in the Final document, Section 1 (Introduction), page 15:							
Goal 1: Protect the lives and health of the Parish's residents from the dangers of natural hazards							
Goal 2: Ensure that public services and critical facilities operate during and after a disaster							
Goal 3: Ensure that adequate evacuation routes, streets, utilities and public and emergency communications are maintained and available during and after a disaster							
Goal 4: Protect homes and businesses from damage							
Goal 5: Use new infrastructure and development planning to reduce the impact of natural hazards							
Goal 6: Give special attention to repetitively flooded areas							
Goal 7: Maintain and improve CRS ratings throughout the parish							