



ST. TAMMANY PARISH

MICHAEL B. COOPER
PARISH PRESIDENT

December 16, 2022

PUBLIC NOTICE

Resolution C-6333 adopted the St. Tammany Parish Multi-Jurisdiction Hazard Mitigation Plan Update - 2020 by Unincorporated STP on September 3, 2020. It was subsequently approved FEMA (November 4, 2020) and by the State of Louisiana (November 18, 2020). All participating communities adopted the plan as seen in Table 1.

Table 1. Community Adoptions of STP Multi-Jurisdiction Hazard Mitigation Plan Update 2020

Community	Adoption Date	Resolution No.
Town of Abita Springs	October 20, 2020	-
City of Covington	September 22, 2020	2020-25
Village of Folsom	September 14, 2020	-
Town of Madisonville	October 14, 2020	2020-7
City of Mandeville	September 1, 2020	20-20
Town of Pearl River	September 22, 2020	09-15-20(A)
City of Slidell	September 8, 2020	R20-28
Village of Sun	August 11, 2020	8.11.2020.2
Unincorporated STP	September 3, 2020	C-6333

The Mitigation Planning Committee responsible for monitoring, evaluating and updating the *Plan*. The Planning & Development staff in Unincorporated St. Tammany Parish is designated to prepare an annual written progress report. This memo is the progress report prepared by the St. Tammany Regulatory Manager/CRS Coordinator through December 15, 2022.

For credit under the Community Rating System, this memo will be presented to the governing bodies of St. Tammany Parish, released to the media and 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.

Background

The original *St. Tammany Parish Hazard Mitigation Plan* was drafted in 2004, adopted by the Parish Council in 2005, revised in 2010, 2015 and 2020. Upon completion of the *2015 Plan* 5-year cycle, 29 actions and recommendations (of 169) were implemented by parish communities. The remainder were deleted, carried over or are ongoing/in-progress in the *2020 Plan*. Completed Mitigation actions are listed in Tables 4-5 to 4-8 of the *2020 Plan*.

The *St Tammany Parish Hazard Mitigation Plan Update* Steering Committee (Table A-7,¹ of the *2020 Plan*) in collaboration with the participating jurisdictions, community stakeholders, and the public, drafted the current *St Tammany Parish Hazard Mitigation Plan Update – 2020* during a series of meetings held throughout 2020. 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 eligible types of mitigation measures to mitigate potential flooding problems and protect people and property during storm events:

- 1. Local Plans and Regulations** – These actions include government authorities, policies, or codes that influence the way land and buildings are developed and built.
- 2. Structure and Infrastructure Projects** – These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area, and also includes projects to construct manmade structures to reduce the impact of hazards.
- 3. Natural System Protection** – These actions minimize the damage and losses and also preserve or restore the functions of natural systems.
- 4. Education and Awareness Programs** - These actions inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them.

Mitigation measures in the *2020 Plan* 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 ordinances that address items that could contribute to flooding. Figure 1 indicates current planning and regulatory capabilities of parish communities. The communities will work to expand their capabilities by adding to these plans, as well as work to create new plans that will address a long-term recovery and resiliency framework. In instances where there are no existing plans, there will be a commitment to explore opportunities to create new plans that will address long-term recovery and resiliency framework as parish and local resources allow. The *2020 Plan* recommends 185 action items and 64 recommendations (249 total items) to reduce or prevent flood damage. These are presented in detail in Tables 4-9 to 4-43 of the *2020 Plan*.

	St. Tammany Parish	Abita Springs	Covington	Folsom	Madisonville	Mandeville	Pearl River	Slidell	Sum
Plans	Yes / No								
Comprehensive / Master Plan	Yes	Yes	Yes	No	YES	Yes	No	No	No
Capital Improvements Plan	Yes	Yes	Yes	No	No	Yes	No	Yes	No
Economic Development Plan	Yes	No	Yes	No	No	No	No	Yes	No
Local Emergency Operations Plan	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Continuity of Operations Plan	Yes	No	Yes	No	No	Yes	No	Yes	No
Transportation Plan	Yes	No	Yes	No	Yes	Yes	No	Yes	No
Stormwater Management Plan	Yes	Yes	Yes	No	No	yes	No	Yes	No
Community Wildfire Protection Plan	No	No	No	No	No	No	No	No	Yes
Other plans (redevelopment, recovery, coastal zone management)	Yes	Yes	No	No	No	Yes	No	Yes	No
Building Code, Permitting and Inspections	Yes / No								
Building Code	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Building Code Effectiveness Grading Schedule (BCEGS) Score	6/5	Yes	N/A	No	No	5/4	No	3/4	No
Fire Department ISO/PIAL rating	2	3	3	Yes	Yes	Yes	Yes	Yes	Yes
Site plan review requirements	Yes	Yes	Yes	No	No	Yes	No	Yes	No
Land Use Planning and Ordinances	Yes / No								
Zoning Ordinance	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No
Subdivision Ordinance	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No
Floodplain Ordinance	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Natural Hazard Specific Ordinance (stormwater, steep slope, wildfire)	Yes	Yes	Yes	No	No	Yes	No	Yes	No
Flood Insurance Rate Maps	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Acquisition of land for open space and public recreation uses	Yes	No	Yes	No	No	Yes	No	Yes	Yes
Other	No	No	Yes	No	No	yes	No	No	No

Figure 1. St. Tammany Parish Communities Planning & Regulatory Capabilities (Table 3-1 from 2020 Plan)

Review of the 2020 Plan's Action Items

The 185 action items and 64 recommendations (249 in total) found in Tables 4-9 to 4-43 of the *St Tammany Parish Hazard Mitigation Update – 2020* were reviewed by the members of the Mitigation Steering Committee. Of the 249 action items, 16 were carried over from the previous Plan update (2015); 86 were new items; and 147 were ongoing or in-progress at the time of publication.

As of November 30, 2021, significant progress has been made to the 245 projects, action items and recommendations; none were completed in year 1 and 4 were removed. With the exception of 6 new actions or recommendations, communities are implementing 100% of the *Plan's* recommendations. A Summary of the 2022 community progress is presented in Table 2. The detailed list of action items and recommendations for St. Tammany Parish communities is attached.

Table 2. 2022 Summary of Action Items & Recommendations from the St. Tammany Parish NHM Plan Update - 2020

St. Tammany Parish Natural Hazards Mitigation Plan - 2020 Plan												
Annual Action Items Progress												
2022 Annual Report												
	2020 Plan				2021 Update				2022 Update			
Community	New Items	Items Carried Over [1]	Ongoing or Completed at Time of Plan Publication	Total Items in 2020 Plan	Number Action Items or Recommendations Completed	Number Items Removed	New Items	Number Projects or Recommendations Ongoing or in-Progress	Number Action Items or Recommendations Completed	Number Items Removed	New Items	Number Projects or Recommendations Ongoing or in-Progress
St. Tammany Parish	26	3	9	38	1	2	2	37	4		1	34
Abita Springs	6	2	20	28				28				28
City of Covington	8	4	21	33				33	1			32
City of Folsom	6	2	11	19				19				19
City of Madisonville	6	2	12	20				20				20
City of Mandeville	9	1	17	27	1		3	29	4			25
City of Pearl River	6	1	14	21				21				21
City of Slidell	13		31	44		3		41				41
Village of Sun	6	1	12	19				19				19
Totals	86	16	147	249	2	5	5	247	9	0	1	239

Recommendations of the Mitigation Steering Committee

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

1. Local Plans and Regulations

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

St. Tammany Parish communities will replace standard building code with new State Uniform Construction Code that was adopted in October 2022. Adoption of the Louisiana State Uniform Construction Code will go into effect in STPG on January 1, 2023. These codes consist of the 2021 International Building Code, International Residential Code, International Existing Building Code, International Plumbing Code, International Mechanical Code, International Fuel Gas Code, and the 2020 edition of the National Electrical Code. Amendments to these codes can be found at [lsuccc.dps.louisiana.gov](https://lucucc.dps.louisiana.gov).

Along with the adoption of the new state codes on January 1st, St Tammany Parish Department of Permits & Inspections will require an engineered exterior envelope framing plan for all new one and two-family dwellings, additions greater than 500 square feet and accessory buildings over 1000 square feet. The framing plans shall be prepared and stamped by a Louisiana licensed design professional.

Additionally, all St. Tammany Parish communities will strengthen procedures for enforcing building code and floodplain regulations.

- Develop a Unified Development Code incorporating the Strategies outlined in the 2020 Plan

St Tammany Parish adopted a 2040 Comprehensive Plan which highlights resilient building and land development practices and continues to enforce existing Code of Ordinances. Unincorporated St. Tammany Parish is also working to update its Code of Ordinances to encourage low impact development practices, develop a wetland plan and implement drainage and flood risk measures.

- 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. Progress with the Appeal has been made with FEMA: 1) Riverine appeals have been resolved, 2) WHAFIS remodeling of the Coastal Transects (CTs) by the Parish has been accepted by FEMA, and 3) FEMA has agreed to allow use of the 100-Year Stillwater Elevations (SWEL) from the CPRA's 2017 Coastal Master Plan in the Appeal process. FEMA's contractor will now proceed with revised ADCIRC and WHAFIS modeling (using new Stillwater elevations). Production of new DFIRM maps is expected in two years.

- 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). In 2022 the CRS communities in the Parish were awarded 210 points (almost ½ a CRS class) for Activity 610 (Flood Warning and Response). This is the first time the communities have achieved this much sought-after goal.

- 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 and holds a CRS Class 7, Mandeville has achieved a CRS Class 5, Slidell a Class 8 and unincorporated St. Tammany Parish has maintains a Class 7. The latter may improve to a Class 5 when the Building Code Effectiveness Grading Schedule (BCEGS) Classification is improved.

Discounts on residents’ flood insurance policies are awarded annually based upon the CRS Class of each respective community, as shown in Table 3. Currently St. Tammany Parish has 39,777 Policies in Force (PIF) amounting to \$12,279,963,400.00 insurance in force. There have been 24,749 paid losses amounting to \$1,216,317,508.43.

Table 3. FEMA CRS Class Discounts for National Flood Insurance Policy (NFIP) Rates

CRS CLASS	DISCOUNT	
	SFHA	Non-SFHA
1	45%	10%
2	40%	10%
3	35%	10%
4	30%	10%
5	25%	10%
6	20%	10%
7	15%	5%
8	10%	5%
9	5%	5%
10	0%	0%

2. Structure and Infrastructure Projects

- Formalize a Comprehensive Drainage Maintenance Plan

St. Tammany Parish Department of Public Works currently schedules and maintains over 1500 miles of drainage infrastructure and 74 detention or retention 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. In 2022 St. Tammany Parish began a pilot project for Sustainable Development and a Comprehensive Drainage Master Plan. In early November 2022, Parish President Michael Cooper encouraged all residents to participate in the process:

“This Plan assesses the Parish as a whole for the first time in our history. We are currently in the information gathering phase and I encourage all citizens to visit the website and attend the town hall meetings to participate in this phase so that we have a complete representation of our drainage issues.”

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, Upgrade Communications Systems 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. They will implement upgrades and additions to communications systems, including Auto call-down systems with backup capabilities. Communities will add generators to sewer lift stations and critical facilities as needed.
- New Actions recommended by the Hazard Mitigation Steering Committee for all St. Tammany Parish communities

The Steering Committee recommends all St. Tammany Parish communities adopt Water Conservation Measure ordinances requiring water-saving measures for times of drought. Communities were also encouraged to create redundancy of potable water supply to critical facilities, and provide protection of potable water supply by acquisition/installation of backflow preventers at appropriate critical locations.

3. Natural Systems Protection

Natural floodplain systems have many beneficial functions, including providing wildlife habitat and improved quality of life for residents. They slow down the velocity of water as it travels overland, increasing infiltration and reducing flood risk, reducing sediment and urban pollutants from reaching waterbodies. Protections will be extended to wetlands, open space preservation/conservation, and natural shoreline protection. Once communities identify areas that provide natural floodplain functions (as with unincorporated St. Tammany Parish's Wetland Plan), they can more easily make informed decisions about where development should occur. These protections are addressed in local, state and federal plans and regulations of the *2020 Plan*.

Natural systems protections are also addressed in *2020 Plan projects* including: marsh hydraulic restoration projects, marsh creation and nourishment projects, urban forestry initiatives and wildfire vegetation management.

4. Education and Awareness Programs

- Continue and Enhance Active Public Education and Outreach Program for Mitigation of All Hazards

Outreach and education are the key to public participation and resiliency within the parish. All of the communities are implementing enhanced programs to increase public awareness of hazards and hazardous areas. St. Tammany Parish communities have created hazard pages on their respective websites to increase public awareness of hazards, hazardous areas and storm preparation.

Actions may also include: distribution of public awareness information regarding all hazards, SFHAs 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.

Communities will provide critical information about elevation of homes through grant-funded programs; implementation of educational programs for children and merchants; integrate disaster preparedness/mitigation into the public-school curriculum; providing public education on the importance of maintaining ditches, stormwater ponds and storm drains; and promotion of the purchase of flood insurance for the public.

Attachments: spreadsheets of community actions and recommendations

Slidell Mitigation Actions - 2023 Update

City of Slidell Mitigation Action Update									Action	Recommendations
Jurisdiction- Specific Action	Action Description	Funding Source	Timeframe	Responsible Party, Agency, or Department	Hazard	Status 2020	Status 2021	Status 2023		
SL1: W-14 Pumping Station Construction	Construct a pumping station at the mouth/terminus of the W-14 Drainage Canal. A pump at the mouth of the W-14 would allow water to continue to be pumped out of the city even when the Lake is full and will impede back flooding.	Federal, State, Local	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing; Feasibility study in final review.	Ongoing; Feasibility study in final review.	x	
SL3: Levee Protection Project	Construct a Levee or Flood Wall paralleling the Norfolk-Southern railroad tracks from its intersection with the Schneider Canal Levee to Gause Blvd. US HWY 11 Segment has been completed.	Federal, State, Local	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding, Levee Failure	Ongoing/ Partially Completed	Ongoing/ Partially Completed. Levee Board Gap analysis under final review.	Ongoing/ Partially Completed. Levee Board Gap analysis under final review.	x	
SL4: Bayou Patassat Improvements	Bayou Patassat Drainage Canal needs to be reshaped. The channel needs to be reshaped and smoothed so the water is effectively and efficiently conveyed to the pumps upgraded from the last hazard mitigation plan and discharged into Bayou Bonfouca. Additionally, the subsurface section of the channel should be removed and upgraded to match the increase in capacity for the reshaped sections.	Federal, State, Local	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing; Feasibility study begin Q1 of 2022	Master Plan to be adopted in Q4 of 2023	x	
SL5: Elevation of Severe Repetitive Loss and Repetitive Loss Structures	Homes outside levee protection need to be elevated above the City of Slidell's Design Flood Elevation (DFE). The majority of the City's residences were built pre-FIRM. Approximately 973 repetitive loss homes have not yet been elevated.	Federal	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing; Applications are submitted every year for review.	Ongoing; Applications are submitted every year for review.	x	
SL6: Pontchartrain Drive Drainage Improvements	Pontchartrain Drive is an older commercial corridor. Drainage along the corridor was constructed and modified in a piecemeal fashion spanning decades. These factors have combined to create a drainage system that struggles to handle heavy rain events because the system's slope is not uniform, the channel is not straight, and the water has a long way to travel until it is safely discharged into Lake Pontchartrain. During events the system becomes overwhelmed and adjacent properties are flooded.	Federal, State, Local	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing; Request made to Capital Outlay for funding of Feasibility study.	Ongoing; Request made to Capital Outlay for funding of Feasibility study for FY23	x	
SL7: Audubon Ditch Drainage Improvements	Improving the shape and slope of the Audubon ditch and removing debris and other obstructions would allow storm water to move quicker and more efficiently from the neighborhoods and out of the city, thereby reducing the threat of flooding during storm events	Federal, State, Local	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing	Ongoing; Request for Capital Funds to begin design	x	
SL8: Breckenridge Ditch Improvements	The Breckenridge ditch discharges first into a detention pond then into the W-15. Improving the Breckenridge ditch design and removing debris and other obstructions would allow storm water to move quicker and more efficiently from the neighborhoods and out of the city, thereby reducing the threat of flooding during storm events.	Federal, State, Local	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing	Ongoing	x	
SL9: Carollo Drive Drainage Improvements	Improving the Carollo Drainage, especially the detention pond, would allow for the capture and controlled release of storm and flood water during storm events, thereby reducing the threat of flooding.	Federal, State, Local	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing; Phase I of the project is complete which concrete lined the trickle channel in the pond.	Phase I is complete. Area is under evaluation for further improvements	x	

Slidell Mitigation Actions - 2021 Update

City of Slidell Mitigation Action Update									Action	Recommendations
Jurisdiction- Specific Action	Action Description	Funding Source	Timeframe	Responsible Party, Agency, or Department	Hazard	Status 2020	Status 2021	Status 2022		
SL10: Rue Miramon Drainage Improvements	Improving the Rue Miramon drainage system is key to removing storm water from the Bon Village subdivision and reducing flooding on Gause Blvd.	Federal, State, Local	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing; Site Evaluation to be performed of existing infrastructure in Q1	Evaluation complete; Funding required for next phase	x	
SL11: Lindeberg Dr Drainage Improvements	This project would redesign and improve the affected sections of these drainage canals, especially where they converge.	Federal, State, Local	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing; Need LADOTD as partner to move forward with	Ongoing; Need LADOTD as partner to move forward with project.	x	
SL12: W-14 / W-15 Detention Pond	Failure of this node has led to overtopping of the canal and ditch and flooding of nearby homes and businesses. Creation of a detention pond and controlled release of storm/floodwaters at this point in City's drainage system would provide for	Federal, State, Local	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing	Ongoing	x	
SL13: 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	Ongoing	City of Slidell Mayor's Office	Flooding, Wind, Hail, Lightning, Tornado, Tropical Cyclone, Wildfire, Termites, Fog	Ongoing	Ongoing	Ongoing		x
SL14: Pump Station Improvements (formerly No.7)	Dellwood Stormwater Pump Station Improvements	Local, FEMA	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing	LWI awarded funding. Project is 100% design. Should bid in Q4 of 2023	x	
SL15: Sewer System Improvements (formerly No.8)	Hermadel Subdivision Storm Sewer System	Local, FEMA	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing	Ongoing	x	
SL16: Safe Room (formerly No. 1)	Construct safe room for City of Slidell to utilize during major tornado and wind events	Local	1-5 Years	City of Slidell Mayor's Office	Tornado, Wind	In progress	In progress; FEMA approved the project to bid. Bid should be set for Q1 2022.	Project has bid. Request for additional funding has been sent to GOHSEP/FEMA	x	
SL17: Drainage Improvements (formerly No.2)	Gause Boulevard and Robert Road Intersection Drainage Improvements	Local, LADOTD	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing	Ongoing	x	
SL18: Road Elevation (formerly No.3)	North Boulevard Roadway Elevation	Local	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing	Ongoing	x	
SL19: Drainage Improvements (formerly No.4)	Beechwood Street/Walnut Street Drainage Improvements	Local, FEMA	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing	Ongoing	x	
SL20: Canal Improvements (formerly No.5)	W-15 Canal Improvements	Local, STP	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing	Ongoing	x	
SL21: Wind Retrofits of selected facilities (formerly No.7)	Wind Retrofits Evaluation and Installation	Local, State, FEMA	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Wind, Tornado	Deleted	Deleted		x (Deleted)	

Slidell Mitigation Actions - 2021 Update

City of Slidell Mitigation Action Update										Action	Recommendations
Jurisdiction- Specific Action	Action Description	Funding Source	Timeframe	Responsible Party, Agency, or Department	Hazard	Status 2020	Status 2021	Status 2022			
SL22: Storm water master plan (formerly No.9)	Development of a Comprehensive Storm water Master Plan	Local	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing; Awaiting response on BRIC grant application for funding	Ongoing; Awaiting response on BRIC grant application for funding	x		
SL23: Ordinance improvements (formerly No.10)	Review and Update of Storm water Ordinances and Design Manual	Local, FEMA	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Continuous	Continuous; City Council adopted lower SWPPP threshold (1000sqft) and storm water quality requirements in July	Continuous; City Council adopted lower SWPPP threshold (1000sqft) and storm water quality requirements in July 2021		x	
SL24: Generator Procurement/ Installation (formerly No. 11)	Purchase and Installation of Emergency Generators at Key Facilities	Local, State, FEMA	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding, Wind, Lightning, Tornado	Ongoing	Ongoing; Generators were installed on 4 critical sewer lift stations.	Ongoing; Request for additional funding has been submitted.	x		
SL25: Drought education program development (formerly No.13)	Development of a Public Education Outreach on Water Conservation Measures	Local, FEMA	Ongoing	City of Slidell Mayor's Office	Drought	Continuous	Continuous	Continuous	x		
SL26: Lightning Education (formerly No. 14)	Development of a Public Education Outreach on Lightning Dangers	Local	Ongoing	City of Slidell Mayor's Office	Tropical Cyclone, Lightning	Continuous	Continuous	Continuous	x		
SL27: Lightning mitigation (formerly No.15)	Identification of Critical Infrastructure Vulnerable to Lightning and Installation of Lightning Rods	Local, FEMA	Ongoing	City of Slidell Mayor's Office	Tropical Cyclone, Lightning	Ongoing	Ongoing	Ongoing	x		
SL28: Bayou improvements (formerly 1.1.9)	De Snag and clean Bayou Vincent. The portion from Hwy 190/Gause BLVD West northward to I-12 still needs to be cleaned	N/A	Ongoing	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing	Ongoing	x		
SL29: Flood mitigation (formerly 3.1.1)	Elevate the low spot near Palm Lake on Bonfouca Drive	N/A	Ongoing	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing	Ongoing	x		
SL30: Dellwood Pump Station Hardening	Construct Bar Screen and Rakes	Federal, State, Local	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing; LA Watershed grant awarded. Design to be	LWI awarded funding. Project is 100% design. Should bid in Q4 of 2023	x		
SL31: Lee St Pump Station Hardening	Construct Bar Screen and Rakes	Federal, State, Local	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing; LA Watershed grant awarded. Design to be	LWI awarded funding. Project is 100% design. Should bid in Q4 of 2023	x		
SL32: Residential Buyout and Canal Widening (W-14)	Purchase properties along W-14 canal and widen canal.	Federal, State, Local	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing	Ongoing	x		
SL33: Detention Pond Improvements	Modify weir and pond to help conveyance of water into the pond	Federal, State, Local	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing	Ongoing	x		
SL34: Culvert Replacement	Replace bridge to all for better conveyance in the W-14 canal	Federal, State, Local	1-5 Years	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing	Ongoing	x		
SL35: Culvert Upgrade	Upgrade the culvert on Bonfouca Drive near Palm Lake	N/A	Ongoing	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Ongoing	Ongoing	Ongoing	x		

Slidell Mitigation Actions - 2021 Update

City of Slidell Mitigation Action Update									Action	Recommendations
Jurisdiction- Specific Action	Action Description	Funding Source	Timeframe	Responsible Party, Agency, or Department	Hazard	Status 2020	Status 2021	Status 2022		
SL26: Master Drainage Plan	Develop a master drainage plan which will evaluate drainage projects at major drainage laterals to determine best method of increasing drainage capacity. Implement recommended projects resulting from drainage plan.	City-Budget	Ongoing	City of Slidell Mayor's Office	Flooding-Tropical-Cyclone	New	DELETE; duplicate of SL22		x (Deleted)	
SL37: Enhanced Mitigation Outreach and Education for All Hazards	Increase public awareness of hazards and hazardous areas. Actions may include distribution of public awareness information regarding all hazards and potential mitigation measures; implementation of educational program for children and merchants; Integrate emergency preparedness and mitigation into the public school curriculum, providing public education on the importance of maintaining the ditches, promotion of the purchase of flood insurance for public. Sponsor a "Multi- Hazard Awareness Week", to educate the public on all hazards	HMGP, Federal	1-5 years	City of Slidell Mayor's Office	Flooding, Thunderstorms, Tornadoes, Tropical Cyclones, Coastal Hazards, Drought, Fog, Termites, Wildfires	New	Ongoing	Ongoing		x
SL38: Potable Water	Create redundancy of potable water supply to critical facilities, and provide protection of potable water supply by acquisition/installation of backflow preventers at appropriate critical locations.	HMGP, Federal	1-5 years	City of Slidell Mayor's Office	Flooding, Thunderstorms, Tornadoes, Tropical Cyclones	New	Ongoing	Ongoing	x	
SL39: Flood Proofing Projects	Flood-proof critical structures within Slidell to help promote continuation of critical services during a storm event	HMGP, Federal	1-5 years	City of Slidell Mayor's Office	Flooding, Tropical Cyclones	New	Ongoing	Ongoing	x	
SL40: Road Elevation	Elevate roads in vulnerable locations prone to flooding and drainage problems.	HMGP, Federal	1-5 years	City of Slidell Mayor's Office	Flooding, Tropical Cyclones	New	Ongoing	Ongoing	x	
SL41: Pumping Station Projects	Elevate or flood proof pump stations; upgrade existing pump stations by installing block valves to prevent/protect against backwater	HMGP, Federal	1-5 years	City of Slidell Mayor's Office	Flooding, Tropical Cyclones	New	Ongoing	Ongoing	x	
SL42: Communication System Upgrades	Implement upgrades and additions to communications systems, including the Auto call out system. Implement a public notification system, such as sirens or a call down system with backup capabilities.	HMGP, Local, regional, and federal	1-5 years	City of Slidell Mayor's Office	Flooding, Thunderstorms, Tornadoes, Tropical Cyclones, Wildfire, Fog	New	Ongoing	Ongoing	x	

Slidell Mitigation Actions - 2021 Update

City of Slidell Mitigation Action Update									Action	Recommendations
Jurisdiction- Specific Action	Action Description	Funding Source	Timeframe	Responsible Party, Agency, or Department	Hazard	Status 2020	Status 2021	Status 2022		
SL43: Adoption of International Building Codes and Regulation of New Development	Adopt the current International Building Codes by ordinance, which would result in additional techniques to harden structures and mitigate against damage from hazards.	HMGP, Local	1-5 years	St Tammany Parish Government / Slidell Mayor's Office	Coastal Hazards, Flooding, Tropical Cyclone, Termites, Tornadoes, Thunderstorms, Wildfires	New	Ongoing	Ongoing		x
SL44: Water Conservation Measures	Adopt ordinances requiring water-saving measures in time of drought	HMGP, Local	1-5 years	St Tammany Parish Government / Slidell Mayor's Office	Drought	New	Ongoing	Ongoing		x
City Waste Treatment-Elevation	Continuing waste water treatment during and after a storm event is critical to residents' health and safety and to protect the environment. The City's Waste Water Treatment Plant's Motor Control Center is below Base Flood Elevation (BFE). Elevating the Motor Control Center would enable the City to continue to treat waste water during and after a storm event.	Federal, State, Local	To Be Removed	City of Slidell Mayor's Office	Tropical Cyclone, Flooding	Deleted	Deleted	Deleted	x	
44									39	5