

# Floodplain Management Plan Annual Progress Report

January 4

# 2018

Annual report on evaluating progress toward implementing the Floodplain Management Plan's objectives and/or the recommendations for the City of St. Augustine. The evaluation report must be submitted to the governing body, released to the media, made available to the public and included as part of the community's annual Community Rating System (CRS) recertification.



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## Introduction

The St. Johns County Local Mitigation Strategy (LMS) serves as the City's Floodplain Management Plan under the Community Rating System (CRS) of the National Flood Insurance Program (NFIP).

Under CRS Activity 510, the City is required to complete a Floodplain Management Plan Annual Progress Report that includes:

1. A description of how the evaluation report was prepared and how it is submitted to the governing body, released to the media and made available to the public.
2. How the reader can obtain a copy of the original plan or area analysis report.
3. A review of each recommendation or action item in the action plan or area analysis report, including a statement on how much was accomplished during the previous year.
4. A discussion of why any objectives were not reached or why implementation is behind schedule.
5. Recommendations for new projects or revised recommendations.

This document serves as that report. The report was prepared by City staff and put on the January 22, 2018 City Commission Meeting Agenda for review and approval. A hardcopy of the report is available to the public at the Public Works Department and a PDF of the report is available for viewing and/or downloading at the City's website.

## Adoption of the LMS

The St. Johns County LMS was adopted by *Resolution No. 2005-14* by the City Commission on July 11, 2005. The LMS is required to be updated every five years and the revised LMS was adopted by *Resolution 2015-11* by the City Commission on April 13, 2015. The current five year cycle ends in June 1, 2020. A copy of the LMS document is made available at the Northeast Florida Regional Council offices and the St. Johns County Emergency Management office.

## Purpose and Goals of the LMS

The purpose of the LMS is to provide guidance to the County and municipal governments in building a safer and more resilient community by identifying and dealing with hazards and hazard management problems, including flooding, in the St. Johns County area. The following goals are provided in ranked order, where the first goal is paramount:

1. Protect the lives of the residents of St. Johns County and its Municipalities.

2. Protect property to ensure that its intrinsic value is preserved.
3. Protect infrastructure so that it is available during and after a disaster.
4. Protect business activities so that they continue to provide economic strength to the community.
5. Protect the environment to ensure that quality of life and economic wellbeing are preserved.

These goals are used as part of the project prioritization methodology. Projects recommended by this Strategy must first meet one of the goals to be considered, then will receive points based on which goals they will routinely further.

### **LMS Task Force**

A task force has been established to review and make recommendations concerning the LMS. The task force consists of representatives of the City of St. Augustine's Public Works, Planning & Building and Fire Departments, other local municipalities, local organizations and County departments, and is coordinated by staff of the St. Johns County Emergency Management Division. The task force meets on a quarterly basis and is responsible for developing and implementing new mitigation initiatives. The task force also looks for possible federal and/or state funding (i.e. Hazard Mitigation Grant Program (HMGP), Flood Mitigation Assistance (FMA), etc.) to implement the mitigation initiatives.

### **St. Johns County LMS Inventory of Ranked Projects**

The LMS task force has established a list of ranked projects or mitigation initiatives that are given priority based on the goals stated above. The list contains projects that are eligible for HMGP, FMA and other federal and state funding. The majority of the projects focus on the mitigation of known or potential flood hazards. Specifically, the City of St. Augustine is involved with the following mitigation initiatives:

- Adapting to Sea Level Rise: Planning Process Development
  - Project Status – Started. Two reports were released in 2017, (1) Florida Community Resiliency Initiative Pilot Project: Adaptation Plan for St. Augustine, and (2) Coastal Vulnerability Assessment: City of St. Augustine.
- Flood Mitigation on King Street

- Project Status (FDOT) – Started. Phase 2 design from Malaga Street to Avenida Menendez is at 60%. The FDOT is currently in the Right-of-Way phase and intends to fund the project for construction in 2022-2023.
- Drainage Improvements at Oyster Creek Basin
  - Project Status – Started. This includes 2 pilot projects in the Stormwater Master Plan (Sidney Street Drainage Improvements and South Dixie Highway Improvements). Phase 1 – Sidney Street Drainage project was completed in 2016/7. Additional projects are being identified in this basin.
- South Dixie Highway Improvements – Construction of new storm sewer collection system, road base, traffic lanes including bike lanes, sidewalks and replacement of existing box culvert between King Street and State Road 207.
  - Project Status – Started. Preliminary engineering evaluation study has been completed. The box culvert replacement (Phase 1) has begun and will be completed by May 2018. The second phase (roadway design and construction) is planned for 2018-2022.
  - So. Dixie Box Culvert Replacement – In-progress. Due to deterioration of the box culvert and damage associated with Hurricane’s Matthew and Irma, design and construction of the box culvert was begun and is underway with completion expected early 2018.
- Lake Maria Sanchez Flood Mitigation and Drainage Improvements – will serve 200 acres of the City’s downtown core.
  - Project Status – Started. FEMA HMGP grant funding being awarded in 2018. Design and permitting for Phase 1 will be 2018-2019. Phase 2 construction will be 2019-2021.
- May Street Drainage Improvements
  - Project Status (FDOT) – Started. Construction will be through 2019.
- Avenida Menendez Outfall Improvements – Retrofit storm sewer outfalls between the Bridge of Lions and the Fort with backflow valves to prevent tidal influence by the Matanzas River.
  - Project Status (FDOT) –Design complete, pending construction. This will be completed as part of the FDOT re-surfacing project for San Marco anticipated to begin May 2018.
- North and South Davis Shores Outfall Improvements - Retrofit storm sewer outfalls in the neighborhoods with backflow valves to prevent tidal influence by the Matanzas River and Salt Run.
  - Project Status – Started. Project will be completed in 2018.
- City of St. Augustine Stormwater Master Plan

- Project Status – Completed. Three pilot projects identified as part of the plan. The Master Plan is available for download on the City’s website.
- Sidney Street Pilot Project is completed.
- South Dixie Pilot Project has started (Phase 1 is the box culvert replacement under construction; Phase 2 is the full road construction planned for 2020-2022).
- Flood Mitigation on S. Whitney and W. King Street
  - Project Status – Started. Conceptual design developed for HMGP application, pending funding award.

The entire St. Johns County LMS Inventory of Ranked Projects can be found in **Appendix A**.

**CRS Program Participation**

The CRS provides a flood insurance discount incentive to the City for undertaking flood protection measures beyond the minimum requirements of the NFIP. The City currently has a “Class 7” certification, resulting in a 15% discount of flood insurance premium issued with the Special Flood Hazard Area (SFHA). The program’s goal is to create an overall comprehensive outreach strategy focused on flood information that encourages flood protection and raises awareness of the City’s unique environment.

The following table lists all of the CRS activities that the City is credited under the current certification:

CRS Activity No.	Activity Description	Departments
310	Elevation Certificates	Planning & Building
320	Map Information Service	Planning & Building
330	Outreach Projects	City/Local Representatives
350	Flood Protection Information	Planning & Building
420	Open Space Preservation	Planning & Building
430	Higher Regulatory Standards	Planning & Building/ Public Works

450	Stormwater Management	Public Works
502	Repetitive Loss Category	Planning & Building
510	Floodplain Management Planning	St. Johns County/ Planning & Building/ Public Works/Fire
540	Drainage System Maintenance	Public Works
610	Flood Warning Program	St. Johns County/ Fire

### **Certified Floodplain Manager Program**

The Association of State Floodplain Managers (ASFPM) has established a national program for professional certification of floodplain managers. The program recognizes continuing education and professional development that enhances the knowledge and performance of local, state, federal and private-sector floodplain managers. There are currently two (2) members of City staff that have achieved the status of Certified Floodplain Manager (CFM), which reflects the City’s commitment to professional services in implementing the City’s Floodplain Management Plan.

### **Ordinance Revisions Improve Building Resiliency**

In 2017, the City adopted higher standards for development that will provide greater flood protection. Ordinances 2017-08 and 2017-09 adopted new standards that are in keeping with the updated Florida Building Code, effective December 31, 2017. The ordinance require additional freeboard for finished floors above the base flood elevation and engineered and sealed foundation plans designed to resist flood loads. With the adoption of these new ordinances the city has improved its resiliency against flood damages.

### **Stormwater Master Plan**

The City completed Phase 1 of the Stormwater Master Plan in 2012. The master plan proposes solutions to three large projects and smaller neighborhood projects that experience flooding and other stormwater issues. A hard copy is available to view at the City’s Public Works Department and an electronic copy of the master plan is available for download at the City’s

website. Sidney Street, one of the master plan pilot projects, is completed. The other two pilot projects identified, South Dixie Highway and Lake Maria Sanchez, are under way.

### **Adapting to Sea Level Rise (SLR)**

The City is keenly aware of the challenges posed by climate change and as a low lying coastal community especially sensitive to the effects of future sea level rise. The Florida Department of Economic Opportunity (DEO) Community Resiliency Initiative selected the City of St. Augustine to participate as one of three pilot communities to study the city's vulnerability to coastal flooding and to assist the city in identifying steps that can be taken to help the city adapt to those vulnerabilities. The project began in 2016 with a series of meetings and workshops with the DEO consultant, Dewberry. With a majority of the city being located in a flood plain, the city is proactively identifying areas of risks, as presented in the two papers that were published in 2017, (1) Florida Community Resiliency Initiative Pilot Project: Adaptation Plan for St. Augustine, and (2) Coastal Vulnerability Assessment: City of St. Augustine. The City can expect projects to protect and maintain infrastructure subject to adverse conditions created by SLR to be very costly and will require the assistance of state and federal programs to provide supplemental funding to implement.



## Capital Improvement Projects

The City of St. Augustine has also undertaken Capital Improvement Projects (CIPs) included in and also outside of the LMS that provide stormwater improvements in the form of water quality treatment and localized flood reduction. The following is a list of CIPs that the City is currently working on:

- Downtown Improvements District – Phase 1 (Hypolita, Treasury & Spanish).
  - Project Status – Completed in February 2015.
- South Dixie Highway Corridor Improvements
  - Project Status – Preliminary evaluation complete. Box culvert replacement is under construction and will be completed in May 2018. The roadway design and associated construction is planned for 2020-2022.
- Sidney Street Stormwater Improvements
  - Project Status – Completed in 2016.
- Lake Maria Sanchez Flood Mitigation and Drainage Improvement Project
  - Project Status – Started. FEMA HMGP grant funding being awarded in 2018. Design and permitting for Phase 1 will be 2018-2019. Phase 2 construction will be 2019-2021. Project identified as a CIP in the Master Stormwater Plan.
- Coquina Ditch Drainage Improvements
  - Project Status – Completed in 2016.
- Lincolnvillle Storm Sewer and Collection Expansion
  - Project Status – Project scheduled for construction in 2018-2019.
- Hermosa Outfall Study
  - Project Status – Study completed and scheduled for construction in 2018.
- Isla Drive Drainage Improvements
  - Project Status – Completed in 2016.
- Prawn Street Drainage Improvements
  - Project Status – Under construction, scheduled to be completed 2018-2019.
- Court Theophelia/Edna Neighborhood Drainage Improvements
  - Project Status – Preliminary design scheduled for 2018, construction for 2019.
- Outfall Backflow Prevention
  - Project Status – Started. The tide check valves are currently being installed in the Davis Shores neighborhood. The City is working on the design for the Macaris Outfall (design complete in 2018, construction in 2019). The City is also developing a Master Stormwater Outfall Retrofit Plan for the remaining 80 stormwater outfalls, which the plan will be completed in 2018. The City will

continue retrofitting outfalls based on the Master Plan as funds become available.

### **Drainage System Maintenance**

The City utilizes detailed inspection and maintenance forms for storm drains, manholes and outfalls as a supplemental report to support the *Drainage Structure Inspection and Maintenance Program* document that is currently on record with the CRS and used by the CRS to rate the City's drainage system. The forms were designed to collect more detailed information during the routine inspections and maintenance of the existing drainage system. In addition, the City now has a dedicated stormwater maintenance crew that conducts the inspection and maintenance for the entire City's stormwater system. This includes the cleaning of thirteen (13) stormwater vaults located throughout the City that capture sediment and pollutants preventing them from reaching receiving waterbodies.

### **Conclusion**

In 2017, the City of St. Augustine has implemented its Floodplain Management Plan through participation in the St. Johns County LMS as an active task force member and by continuing to meet the requirements of the CRS for all of the activities listed in this report. In addition to the above, the City has also pursued and implemented CIPs that provide quality stormwater improvements for its citizens.

### **Recommendation**

The City will remain an active member of the LMS task force and continue to pursue federal and/or state funding for future flood mitigation projects. CIPs identified in the Stormwater Master Plan Update will follow the scheduled implementation proposed in the plan. The City will also pursue backflow improvements for the major stormwater outfalls and implement smaller neighborhood projects to address local/nuisance flooding issues reported by residents. In the long term, the City must plan for and create adaptive management policies and strategies for sea level rise including seeking assistance from state and federal programs.

# APPENDIX A

**St. Johns County Local Mitigation Strategy Ranked Project List**

Project Rank	Project	Project Status	New or Existing Structure/ Infrastructure	Jurisdiction*	Responsible for Project Implementation**	Hazard****	Project Time-Frame	Potential Funding Source
<b>Education and Training</b>								
	Educate Prospective Home Buyers & Real Estate Professionals About Floodplains & Base Floor Elevations	On-going	New and Existing	ALL	SJC Emergency Management	SS, F	on-going	Local
	Educate Residents of Financial/Insurance Benefits of Preparing their Homes for Natural Disasters	On-going	New and Existing	ALL	SJC Emergency Management	ALL	on-going	Local
	GIS Enhancements for Mitigation Activities Countywide	On-going	New and Existing	ALL	SJC Geographic Information Systems	ALL	on-going	Local
	NIMS Compliance and Training	On-going	N/A	ALL	SJC Emergency Management	ALL	on-going	Local
<b>Expand/Enhance/Improve Utilities</b>								
16	Bartram Oaks Wastewater Treatment Plant Standby Generator	Not Started	Existing	St. Johns County	SJC Utilities	H, HW, T, TR, D, FR	1 year	HMGP
	City of St. Augustine Pump Station 20 Basin Improvements (Fullerwood)	Not Started	Existing	City of St. Augustine	COSA Public Works	H, SS, SLR	3 years	HMGP
	Electrical Utilities Underground - South Anastasia Island	Not started	New	St. Johns County	Florida Power and Light	H, HW, T, W, FR	1-2 years	Private
	Electrical Utilities Underground - Ponte Vedra Beach	Not started	New and Existing	St. Johns County	Beaches Energy	H, HW, T, W, FR	1-2 years	Private
	Electrical Utilities Underground - St. Augustine Beach, along A1A	Not Started	New and Existing	City of St. Augustine Beach	Florida Power and Light	H, HW, T, W, FR	1-2 years	Private
	Expansion of City of St. Augustine Water Treatment Facility	Not Started	Existing	City of St. Augustine	COSA Public Works	H, SS, F, D	2 years	Local
18	Fruit Cove Wastewater Treatment Plant Standby Generator	Not Started	Existing	St. Johns County	SJC Utilities	H, HW, T, TR, D, FR	1 year	HMGP
12	Manhole Lid Inserts - Infiltration & Inflow Prevention - Ponte Vedra System - Sewer Collection System	Not Started	Existing	St. Johns County	SJC Utilities	H, SS, F	1 year	HMGP
4	Manhole Lid Inserts - Infiltration & Inflow Prevention - St. Johns County Main System - Sewer Collection System	Not Started	Existing	St. Johns County	SJC Utilities	H, SS, F	1 year	HMGP
	Potable Water System Improvements in the Town of Hastings	On-Going	Existing	Town of Hastings	Town of Hastings	H, SS, F, D	1-2 years	CDBG
	Rehabilitation of existing sewer system in the Abbott Tract	Completed	Existing	City of St. Augustine	COSA Public Works	SS, F	3-4 years	Local, CDBG
	Rehabilitation of existing sewer system in Oyster Creek	Not Started	Existing	City of St. Augustine	COSA Public Works	SS, F	3-4 years	Local, CDBG
3	Rehabilitation of existing sewer system in the Town of Hastings 3 Service Area	On-Going	Existing	Town of Hastings	Town of Hastings	F, D	3-4 years	Local, HMGP
20	Sawgrass Water Treatment Plant Standby Generator	Not Started	Existing	St. Johns County	SJC Utilities	H, HW, T, TR, D, FR	1 year	HMGP
23	Shores Unit 2 Ground Storage Tank & Pumping Facility Standby Generator	Not Started	Existing	St. Johns County	SJC Utilities	H, HW, T, TR, D, FR	1 year	HMGP
22	South Ground Storage Tank & Pumping Facility Standby Generator	Not Started	Existing	St. Johns County	SJC Utilities	H, HW, T, TR, D, FR	1 year	HMGP
	Upgrade faulty septic systems	On-going	New and Existing	St. Johns County & COSA	COSA Public Works	SS, F	on-going	Local, CDBG
<b>Flood/Repetitive Loss Mitigation</b>								
	Acquisition of property from willing sellers along Old A1A Summerhaven	On-going	Existing	St. Johns County	St. Johns County Environmental	H, SS, F, SLR	1-2 years	HMGP, Local
	Acquisition at Petty Branch Ravine Park (FCT Project)	Not Started	Existing	St. Johns County	SJC Parks and Recreation	F	1 year	Local
	Drainage Ditch maintenance for flood control	On-Going	New and Existing	ALL	ALL, FPL, JEA	H, HW, W	on-going	State and Local
	Flood Mitigation Improvements to St. Augustine Sanitary Sewer Pumping Stations	Not Started	Existing	City of St. Augustine	COSA Public Works	H, SS, F	3 years	HMGP, Local, State
	Flood Mitigation on King St.	Started	Existing	City of St. Augustine	COSA Public Works	H, SS, F	3 years	State and Local
	Flood Mitigation on Repetitive Loss Properties	On-going	Existing	ALL	Residents, COSA, SJC COSAB Public Works and Engineering	F, SS	on-going	Private, NFIP, FMAP
14	Flood Mitigation on South Whitney and W. King St.	Existing	Existing	City of St. Augustine	COSA Public Works	H, SS, F, SLR	3 years	HMGP

	Purchase Excavation Equipment (backhoes, etc.) for Flood Mitigation	On-going	Existing	ALL	ALL	F	2 months	Local
	Relocation of Fire Station 5 and 11 out of Evacuation Zone	Not Started	Existing	St. Johns County	SJC Fire Rescue	F, SS	1-2 years	Local
	Flood Mitigation at S. Avenida Menendez Seawall Project	Complete	Existing	City of St. Augustine	COSA Public Works	F	3 years	HMGP
	<b>Hazardous Materials Mitigation</b>							
	Education and Training for Hazardous Materials Incident Response Capability	On-going	Existing	St. Johns County	St. Johns County Fire Rescue	HM	on-going	Local, State, LEPC
	<b>Infrastructure and Structure Improvements</b>							
	Electrical Connections for Emergency Standby Generators - FR Stations 9/10/6/7	Not started	Existing	St. Johns County	SJC Fire Rescue	ALL	1 year	HMGP, Local
5	Emergency Standby Generators at Primary Hurricane Shelters: Osceola Elem. School, Otis A. Mason Elem. School, Mill Creek Elem. School	Not started	Existing	St. Johns County	SJC School District	ALL	1 year	HMGP
	Emergency Standby Generator at SJC Council on Aging Senior Center	Not started	Existing	City of St. Augustine	SJC Council on Aging	H, SS, HW, T, F	1 year	HMGP
	Emergency Standby Generators for Fire Stations 4 and 12	Not started	Existing	St. Johns County	SJC Fire Rescue	ALL	1 year	HMGP, Local
	Emergency Standby Generator for Flagler Hospital	Not started	Existing	St. Johns County	Flagler Hospital	H, SS, HW, F	3 years	HMGP
	Emergency Standby Generator for Fuel Pumps at SJC Public Works Facility	Not started	Existing	St. Johns County	St. Johns County Public Works	F, HW, SS, F	6 months	Local
	Emergency Standby Generators at Lift Stations	On-Going	Existing and New	ALL	Utilities	ALL	1 year	Local
	Enhance construction of a new Emergency Communications Center outside storm surge zones	Not Started	New	St. Johns County	SJC Public Safety	H, SS, HW, F	1 year	Local, HMGP
	Enhance construction of a new Sheriff's Office Regional Command Center	Not-started	New	St. Johns County	SJC Sheriff's Office	ALL	1 year	Local
	Functional Needs Evacuation Shelter	Not Started	New	St. Johns County	SJC EM and School Board	ALL	2 years	Local, State
	Improve Evacuation Route Signage	On-Going	New and Existing	St. Johns County	SJC Public Works	H, SS, HW, F, W, HM	on-going	Local, State
	Improve Structural Resiliency - 2859 S. Ponte Vedra Blvd.	Not-started	Existing	St. Johns County	Private Owners	H, SS, SLR	1 year	PDM
13	Install Shutters and a generator for the St. Johns County Pet Center	Not-started	Existing	St. Johns County	SJC EM and SJC Animal Control	H, HW	6 months	HMGP
	Install Shutters on St. Johns County Fire Station #7	Not Started	Existing	St. Johns County	St. Johns County FR	H, HW	6 months	Local
	Install Hurricane Shutters at SJC Council on Aging Senior Center	Not started	Existing	City of St. Augustine	SJC Council on Aging	H, HW, T	1 year	HMGP
	Install generator panel at critical facilities to accept temporary generators	On-Going	Existing	ALL	Utilities	ALL	1 year	Local
	Install System of Dry Fire Hydrants Including Priming Pumps in Flagler Estates Area	Not started	New	St. Johns County	SJC Fire Rescue	W, HM, TR	1 year	Local, State
	May Street @ Douglas (flooding) and at San Marco (constriction) - improve evacuation	Started	Existing	City of St. Augustine	COSA Public Works	H, SS, HW, F, W, HM	1-2 years	CDBG, State
	Mickler Road (from 210 to A1A) Improvements for evacuation	Started	Existing	St. Johns County	SJC Public Works	H, SS, HW, F, W, HM	2 years	Local, State
	Perform a safety study on A1A from Owens Avenue to SR 206 to improve evacuation	Not started	Existing	St. Johns County	SJC Public Works	H, SS, HW, F, W, HM	1 year	Local, State
	Retrofit Schools and other Public Facilities to Increase Hurricane Evacuation Shelter Spaces	On-going	Existing	St. Johns County	SJC EM and School Board	ALL	on-going	State, Local
	South Dixie Highway Improvements	Started	Existing	City of St. Augustine	COSA Public Works	F	3 years	Local, Federal
	SR 206 evacuation improvements study from A1A to end of 206	Not started	Existing	St. Johns County	SJC Public Works	H, SS, HW, F, W, HM	1 year	Local, State
	Upgrade Signalization at A1A and L'Atrium Drive	Not started	New	St. Johns County	St. Johns County Public Works	H, HW, FR	6 months	HMGP
	Upgrade Signalization at A1A and Marlin Avenue	Not started	New	St. Johns County	St. Johns County Public Works	H, HW, FR	6 months	HMGP
	Upgrade Signalization at A1A and PGA Tour Boulevard	Not started	New	St. Johns County	St. Johns County Public Works	H, HW, FR	6 months	HMGP
	Upgrade Signalization at A1A and Ponte Vedra Lakes	Not started	New	St. Johns County	St. Johns County Public Works	H, HW, FR	6 months	HMGP
6	Upgrade Signalization at US1 @ Shore Drive (Ponce Mall Entrance)	Not started	New	St. Johns County	SJC Public Works	H, HW	3 years	HMGP
7	Upgrade Signalization at US1 @ County Road 210	Not started	New	St. Johns County	SJC Public Works	H, HW	3 years	HMGP
8	Upgrade Signalization at US 1 @ Lewis Point Rd.	Not started	New	St. Johns County	SJC Public Works	H, HW	3 years	HMGP
	Upgrade Signalization at Wildwood Drive and U.S. 1	Not started	New	St. Johns County	St. Johns County Public Works	H, HW, FR	6 months	HMGP
	Upgrade Signalization at A1A and Coastal Highway	Complete	Existing	St. Johns County	St. Johns County Public Works	H, HW, FR	6 months	HMGP

	Upgrade Signalization at A1A and Solano	Complete	Existing	St. Johns County	St. Johns County Public Works	H, HW, FR	6 months	HMGP
	Upgrade Signalization at U.S. 1 and Health Park Boulevard	Complete	Existing	St. Johns County	St. Johns County Public Works	H, HW, FR	6 months	HMGP
	<b>Master Drainage Improvement</b>							
	16 Mile Creek Surface Water Improvements	Not Started	Existing	St. Johns County	SJC Public Works & FERWD	F	5 years	State, Local
	Avenida Menendez Outfall Improvements	Not Started	Existing	City of St. Augustine	COSA Public Works	F, SS	1 year	Local, State, HMGP
	Dam at Lake Belouthahatchee	Not Started	Existing	St. Johns County	SJC Public Works	F	2 years	Private, HOA
	Deep Creek Master Drainage Study	Started	Existing	St. Johns County	SJC Public Works	F	1 year	State
	Deep Creek Revitalization	Not Started	Existing	St. Johns County	SJC Public Works	F	3 years	Local, State
	Dobbs Road Basin Improvements	Started	Existing	St. Johns County	SJC Public Works	F	3 years	CDBG, Local
	Drainage Improvements at Avenue D	Not Started	Existing	St. Johns County	SJC Public Works	F	1 year	HMGP
	Drainage Improvements around Anastasia Baptist Church	Not Started	Existing	St. Johns County	SJC Public Works	H, SS, F, SLR	3 years	HMGP
	Drainage Improvements between S. Collins Ave. and Varella Ave.	Not Started	Existing	St. Johns County	SJC Public Works	F, SLR	3 years	HMGP
	Drainage Improvements in the area of W. King St. and N. Rodriquez St. near the St. James Missionary Church	Not Started	Existing	St. Johns County	SJC Public Works	F, SLR	3 years	HMGP
	Drainage Improvements at Frances Ave.	Not Started	Existing	St. Johns County	SJC Public Works	F	1 year	HMGP
19	Drainage Improvements at International Golf Parkway	Not Started	Existing	St. Johns County	SJC Public Works	F	1 year	HMGP
	Drainage Improvements at Irma Way Sub.	Started	Existing	St. Johns County	SJC Public Works	F	2 years	CDBG
11	Drainage Improvements at Kings Estate	Not Started	Existing	St. Johns County	SJC Public Works	F	1 year	HMGP
17	Drainage Improvements at Kings Road	Not Started	Existing	St. Johns County	SJC Public Works	F	1 year	HMGP
	Drainage Improvements at Lightsey Rd.	Not Started	Existing	St. Johns County	SJC Public Works	F	1 year	HMGP
	Drainage Improvements at Main Street	Not Started	Existing	St. Johns County	SJC Public Works	F	1 year	HMGP
15	Drainage Improvements at Masters Drive	Not Started	Existing	St. Johns County	SJC Public Works	F	1 year	HMGP
21	Drainage Improvements at North Beach	Not Started	Existing	St. Johns County	SJC Public Works	H, SS, F, SLR	3 years	HMGP
10	Drainage Improvements at Old Moultrie Road	Not Started	Existing	St. Johns County	SJC Public Works	F	1 year	HMGP
	Drainage Improvements at Oyster Creek Basin	Started	Existing	COSA and SJC	COSA and SJC Public Works	F	3 years	Local, CDBG
	Drainage Improvements at S. Orange St.	Not Started	Existing	St. Johns County	SJC Public Works	F	1 year	HMGP
	Drainage Improvements at Remington Forest	Not Started	Existing	St. Johns County	SJC Public Works	F	1 year	HMGP
	Drainage Improvements at St. Augustine Shores	Not Started	Existing	St. Johns County	SJC Public Works	H, SS, F, SLR	5 years	HMGP
	Drainage Improvements at St. Johns Avenue	Not Started	Existing	St. Johns County	SJC Public Works	F	1 year	HMGP
	Drainage Improvements at Tillman Ridge Landfill	Not Started	Existing	St. Johns County	SJC Public Works	F, HM	1 year	HMGP
9	Increase Primary Stormwater Outfall Capacity	Not Started	Existing	City of St. Augustine Beach	City of St. Augustine Beach	H, SS, F, SLR	1-2 years	HMGP
	Intersection Improvements within Flagler Estates Road and Water District	On-going	Existing	St. Johns County	FERWD/SJC Public Works	H, SS, F	ongoing	Local
	Jack Wright Island Road Drainage Basin Improvements	Not Started	Existing	St. Johns County	SJC Public Works	F	1-2 years	Local
1	Lake Maria Sanchez Sanchez Flood Mitigation	Not Started	Existing	City of St. Augustine Beach	COSA Public Works	H, SS, F	5 years	HMGP, Local
2	Master Stormwater Pump Station Improvements	Not Started	Existing	City of St. Augustine Beach	City of St. Augustine Beach	H, SS, F, SLR	1-2 years	HMGP
	North and South Davis Shores Outfall Improvements	Not Started	Existing	City of St. Augustine	COSA Public Works	F, SS	1 year	Local, HMGP
	Poinsettia/Kings Estates Road/South Fox Creek	Started	Existing	St. Johns County	SJC Public Works	F	2 years	Local, CDBG
	Roscoe Blvd. Outfall Improvements	Started	Existing	St. Johns County	SJC Public Works	F	2 years	Local
	Set up pre-contracts for temporary flood pumps	On-going	Existing and New	ALL	ALL	SS, F	On-going	Local
	Sunset Park Subdivision ( Matanzas River/East Creek)	Started	Existing	St. Johns County	SJC Public Works	F	1 year	CDBG, Local
	West King Street Corridor Improvement Plan	Started	Existing	City of St. Augustine	COSA and SJC Public Works	F	2 years	Local, State
	<b>Planning</b>							
	Adapting to Sea Level Rise: Planning Process Development	Not started	New	ALL	ALL	SLR	On-going	Federal, State, Local
	Develop Post-Disaster Redevelopment Standards For Infrastructure And Structures	Not started	New	ALL	ALL	ALL	2 years	State, Local
	Development of a St. Johns County Floodplain Management Plan	Not started	New	ALL	ALL	F, SS, SLR	2 years	PDM
	<b>Sand Nourishment</b>							



Marineland - Area from north end of revetment to northern Town limits (Underground sand barrier)	On-going	Existing	St. Johns County	St. Johns County Public Works	H, SS	6 months	Local
Restoration of Emergency Berms in Summer Haven	On-going	Existing	St. Johns County	Summer Have Homeowner Ass.	H, SS	6 months	Local
St. Augustine Beach (State Park to F St.)	On-going	Existing	City of St. Augustine Beach	COSAB and SJC	H, SS	6 months	Local
Summer Haven	On-going	Existing	St. Johns County	St. Johns County Public Works	H, SS	6 months	Local
Surfside Area	On-going	Existing	St. Johns County	St. Johns County Public Works	H, SS	6 months	Local
Walk-over @ Mariners Watch	On-going	Existing	St. Johns County	St. Johns County Public Works	H, SS	6 months	Local
<b>Wildfire Mitigation</b>							
Pruning Trees and Clearing Brush Near Structures	On-Going	New and Existing	ALL	ALL, FPL, JEA	H, HW, W, FR	on-going	State
Yellow Highlight - Matthew HMGP Tier 1 Funding							
Green Highlight - Matthew HMGP Tier 2 Funding							
Shaded in Grey - Project Complete							
St. Johns County - SJC; City of St. Augustine - COSA; City of St. Augustine Beach - COSAB Town of Hastings - TOH; Flagler Estates Road and Water District - FERWD; Florida Power and Light - FPL; Jacksonville Electric Authority - JEA							
*Jurisdictions - This category identifies which jurisdiction the Mitigation Project is actually located in. When ALL is used in the Jurisdiction Column it is meant to include St. Johns County, City of St. Augustine. City of St. Augustine Beach, and the Town of Hastings.							
**Responsible for Project Implementation - When ALL is used in the Responsible for Project Implementation Category is meant to include St. Johns County, City of St. Augustine. City of St. Augustine Beach, and the Town of Hastings.							
***Timeframe is considered time the project will take to complete once it is actually started and are only estimates. On-going is for projects that have no end time as they are things that are continually mitigated, such as education							
****Hazard - the following abbreviations will be used to signify which Hazards will be mitigated by a particular Mitigation Project - H - Hurricanes; SS - Storm Surge; HW - High Winds; T - Tornado; F - Flooding; W - Wildfires; HM - Hazardous Materials; TR - Terrorism; D - Drought/Heat Wave; FR - Freeze/Winter Storm; SLR - Sea Level Rise; ALL - Indicates that a Mitigation Project will mitigate against all hazards							
Updated - July 7, 2017							