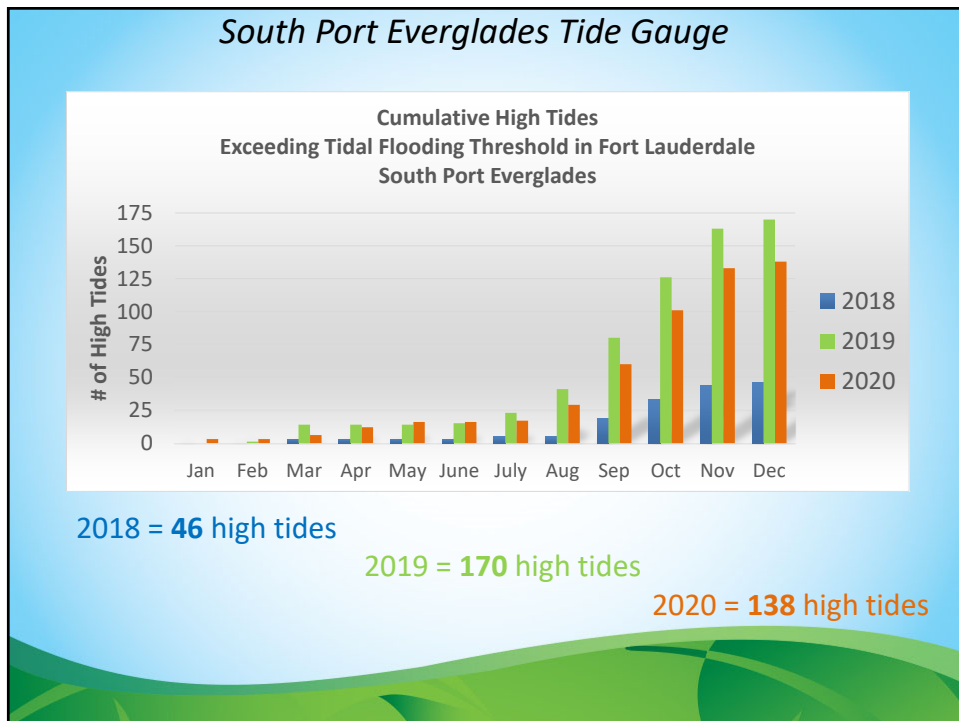
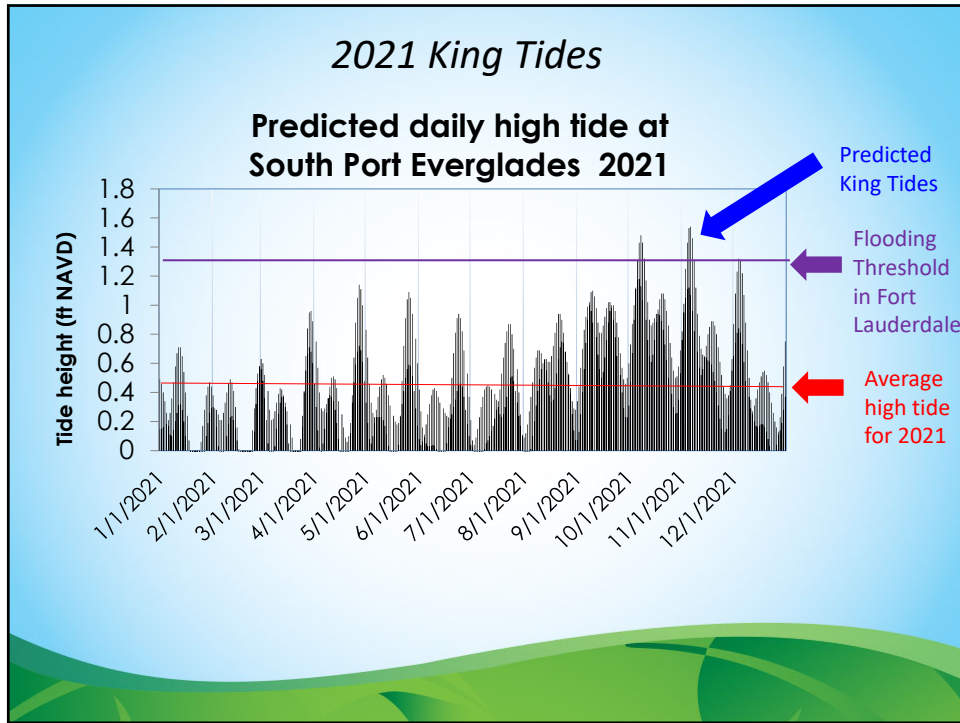




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2021 Resiliency Top Priority

- **Purpose:** to integrate resilience into current and future City planning and operations
- **Scope:**
 - Asset Management
 - Beach Resiliency
 - Sea Level Rise
 - Stormwater Infrastructure
 - Flooding

2021 City Commission Top Priority MEMORANDUM

City of Fort Lauderdale
RESILIENCY
Project Charter
City Commission Top Priorities 2021

Executive Lead and Resiliency Team Members

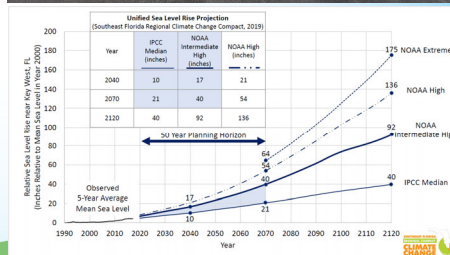
Executive Lead	Resiliency Team
Resiliency Consultant:	King Dennis Glenn Hultman Fred Hirsch Todd Hollibaugh Ronita Pirozza Michael Stettin CMDC Regg (St. Lucie/SEA Smith) Scott Gomez (Port Management Development) Digital Solutions

Executive Lead Signature
 CMO Signature

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2020 Major Accomplishments

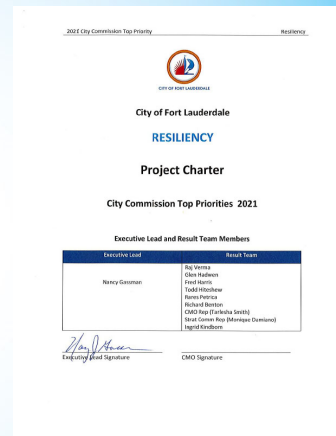
- Completed seawall elevation in the Isle of Palms and Cordova Road
- Created an asset management system
- Conducted a Repetitive Loss Area Flooding Analysis
- Purchased 18 high-clearance vehicles for public safety use.
- Performed hurricane mitigation during housing rehabilitation program
- Adopted the “Unified Regional Sea Level Rise Project -2019 Update” of the Southeast Florida Regional Climate Change Compact



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2021 Focus

- Asset management
- Beach resiliency
- Sea level rise
- Stormwater infrastructure
- Flooding



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Asset Management

- Finalize implementation of asset management tool and work order management system
- Continue to improve asset inventories for water, sewer, and stormwater
- Expand the asset management to vertical assets such as treatment plants



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Beach Resiliency

- Support the beach nourishment project in response to Hurricane Irma impacts to Segment II
- Engage a contractor to develop a Dune Management Plan for the City of Fort Lauderdale



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Sea Level Rise

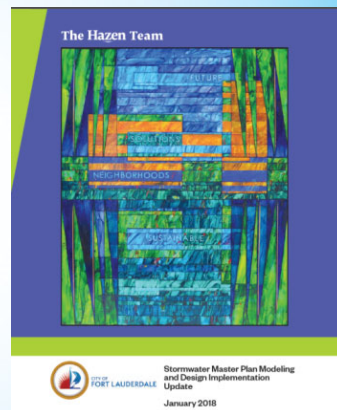
- Complete installation of the Cordova Road seawalls and drainage improvements.
- Initiate construction of the Las Olas Boulevard seawall improvements and other seawalls prioritized in the Seawall Master Plan
- Develop tools to better understand existing elevations of roads and risk from sea level
- Adopt the Broward County Regional Tidal Barrier Elevation Standard



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Stormwater Infrastructure

- Begin construction of Stormwater Master Plan improvements in the Edgewood and River Oaks neighborhoods
- Pursue funding mechanisms for implementing the remainder of the Stormwater Master Plan including bond validation and Water Infrastructure Finance and Innovation Act (WIFIA) loan funds.
- Following Tropical Storm Eta impacts, restore the Melrose Park drainage system back to its original design specifications
- Following Tropical Storm Eta impacts, initiate design of conceptual stormwater improvements for the Melrose Manors neighborhood



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Flooding

- Update the Floodplain Management Ordinance
- Complete installation of back-up generators for the pumps at Storm Station 1
- Update the Adaptation Action Areas to capture additional locations vulnerable to flooding
- Prepare Community Rating System Strategic Plan to further reduces risk and reduce the cost of flood insurance.

FY 2021-2025
Designated Adaptation Action Areas and Projects
(AMC 2009) - 2021 Proposed Community Investment Plan - 182

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Questions

- Updates posted at www.fortlauderdale.gov/laudetrac

LAUDERTRAC
RESILIENCY UPDATE FORT LAUDERDALE
Tracking Progress on Commission Priorities for 2021

April 2021

CREATING A STRONGER COMMUNITY

Other photos of Concrete Pile removal

Sea Level Rise and Seawalls

In May 2020, the City Commission adopted the Southeast Regional Climate Change Compact 2050, a regional sea level rise projection for the region to be used over the planning horizon. From the 2000 baseline, 10-17 inches of sea level rise is possible by the year 2050 and 25-46 inches by 2100, the 50-year return period for sea level rise is installed today. During 2019, the City experienced the highest tide on record for the last 30 years. In 2020, the City recorded 128 high tides that exceeded the threshold for flooding in the lowest lying areas of Fort Lauderdale.

In response to the threat of rising sea level rise, the City established a minimum elevation of 5.9 feet North American Vertical Datum (NAVD) for new seawalls to reduce tidal flooding. The ordinance is currently being reviewed by Broward County and requires a 5 foot NAVD minimum elevation for all new tidal barriers including seawall bulkhead between now and 2025. The proposed amendments to the seawall ordinance is scheduled to be presented to the Planning and Zoning Board in May and will come before the City Commission for consideration later this summer.

The City developed a master plan to ensure that seawalls are built to address future sea level rise. The City-owned seawall assets prioritized for immediate replacement and elevation to protect against the rising tides. The 900 linear feet of seawall on the site of Palms was raised to 5 feet NAVD and completed in August of 2020. Furthermore, the City recently completed elevating 2200 linear feet of the Carlow Road seawall between SE 2 Street and SE 21 Court to increase resilience. For this project, additional drainage improvements were proposed to reduce the frequency, intensity and duration of flooding on Carlow Road which impacted traffic and access to the Via Vista Inn. Permits for additional seawall and drainage improvements north of SE 2 Street, were approved by regulatory agencies in February 2021. All improvements and road restoration work are scheduled to be completed prior to the start of the rainy season and in preparation for the Fall King Tides.

In addition, the City will pursue seawall replacement and elevation of four city-owned seawalls on the south side of Lee One Isles and along SE 39th Street. For calendar year 2021, the City will pursue replacements and elevation for two seawalls on the barrier dunes at the end of Sebastian Street and Seville Street.

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