



LAUDERTRAC

RESILIENCY UPDATE FORT LAUDERDALE

Tracking Progress on Commission Priorities for 2021



July 2021

CREATING A STRONGER COMMUNITY

Asset Management

The foundation of every community includes the provision of potable water, wastewater treatment and stormwater management. Each of these municipal utilities is comprised of a variety of assets such as pipes, pumps, lift stations, catch basins and valves. For example, the City's stormwater management system has nearly 200 miles of pipe, over 1,200 manholes, more than 1,000 outfalls, 9,100 catch basins, 13 drainage wells, four pump stations and 177 tidal valves. Managing these assets so they function reliably now and into the future is a core part of asset management. This includes a knowledge of:

- ▶ what assets the City is responsible for;
- ▶ location of each asset;
- ▶ physical characteristics (composition, length, diameter and age);
- ▶ condition; and
- ▶ level of service to maximize benefits during the life cycle.

Asset management planning considers the criticality of the assets and the potential risk to our community if the assets fail. For example, a stormwater pump is more critical to preventing flooding than a catch basin. Over time, effective asset management allows the City to shift from a reactive mode of repairing assets when they break, to a more proactive mode of replacing assets before they are in need of urgent repairs.

The City is excited to launch Cityworks in the fall of 2021. Cityworks is an asset management system for water, wastewater and stormwater assets. Cityworks tracks time and money spent on repairs and maintenance for utility assets.

The documentation and reporting of maintenance and performance metrics are integral components of certain regulatory requirements the City must follow to be in compliance. This information, along with predictive models, will assist with long-term infrastructure investment plans, promoting informed asset management and capital improvement decisions. The system also leverages existing information systems and databases to include the Geographic Information System mapping (GIS), LauderServ (the City's online customer service portal) and Cayenta (the City's water billing system), to ensure that work orders address neighbors' service needs. Understanding our assets helps the City plan for the best operation and maintenance strategies of our utility systems, promote increased efficiency, improve accountability and enhance service delivery.

The implementation of Cityworks will occur in phases. Currently, approximately 60% of the City's horizontal assets are in the system. These include primarily underground assets (pipes) and associated equipment (pumps) for distribution and collection of water, wastewater and stormwater. We project to have all known horizontal assets incorporated and entered in the system by the end of 2021. Once the horizontal assets have been verified, the system will be expanded to include vertical assets, such as the treatment plants.

Asset management planning coupled with Cityworks is advancing the City of Fort Lauderdale toward the long-term commitment to becoming a "Best in Class" utility.



Fort Lauderdale Catch Basin



Fort Lauderdale Manhole Cover