



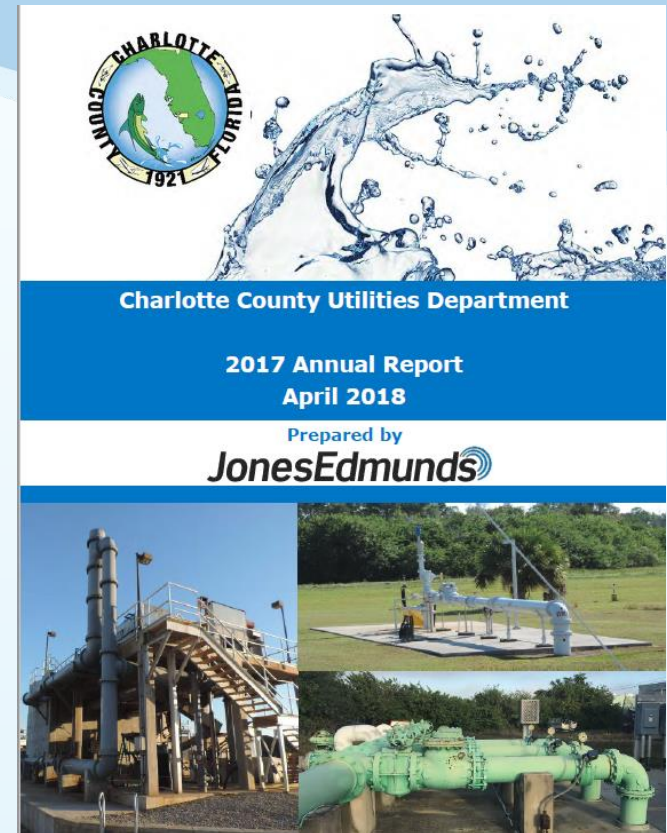
Annual Report

Utilities Department
Quarterly Business Meeting
May 15, 2018



Annual Report

- Inventory and condition
- Describes operations, status of programs, system and functional relationships
- Funding strategies and plans
- Provides recommendations



Completed by Jones Edmunds – April 2018



Water Distribution

System Inventory:

- 1,325 miles of water main
- 10 million gallon storage capacity

Operations:

- 58,775 water accounts
- 3,341,934,000 gallons water sold
 - Average 9,156,000 gal per day (gpd)
- Water Loss 851,470 gpd (~ 9%)

Consumer Confidence Report

- Available on CCU website



Wastewater Collection

System Inventory:

- Gravity main 378 miles
- Force main 261 miles
- Low Pressure 290 miles
- Vacuum ½ mile
- Total 930 miles**

- Manholes 9,514
- **Lift Stations 310**

Operations:

- 36,325 sewer accounts
- “Inflow & Infiltration” testing and repairs
- Force main repairs



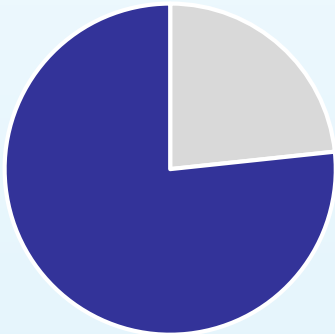


Treatment Facilities

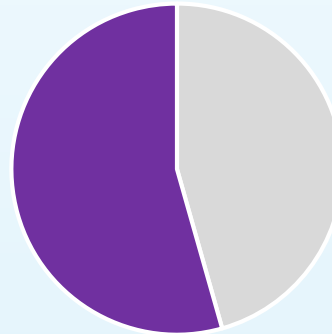
System Inventory and Operation:

- Four treatment plants and volume to capacity

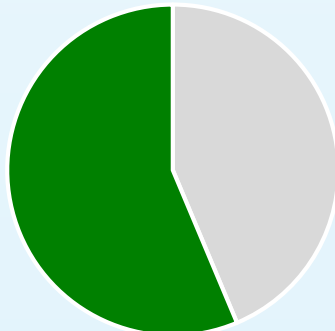
East Port
6 MGD



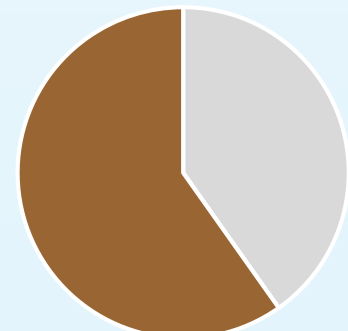
Rotonda
2 MGD



West Port
1.2 MGD



Burnt Store
0.5 MGD



MGD = million gallons per day

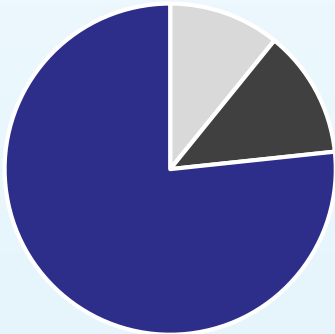


Treatment Facilities ****Projected****

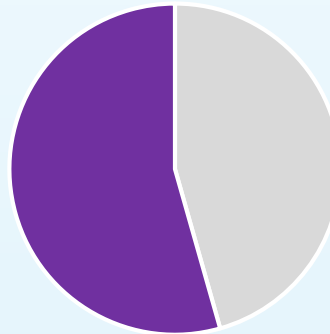
System Inventory and Operation:

- projected known development

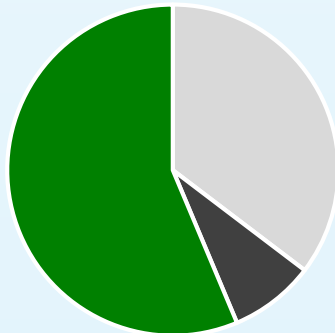
East Port
6 MGD



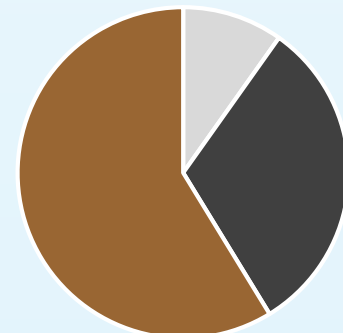
Rotonda
2 MGD



West Port
1.2 MGD



Burnt Store
0.5 MGD





Reclaimed Water Service

System Inventory:

- Transmission 63 miles
- Booster stations 3 each
- Tank storage 1 Mgal
- Pond storage 20 Mgal

Operations:

- Permitted 9.2 MGD
- Demand 4.6 MGD
- Projected growth +3 MGD

Phased improvements
to increase reach and storage
in progress



Mgal = Million gallons



Observations

General condition of infrastructure is consistent with age and environment

- Older and undersized pipes are becoming problematic (ACP, capacity)
- Electrical equipment/circuitry showing age
- Lift stations need rehab program
- Admin updating (policy, info systems, etc.)
- Further master planning needed



Hurricane Irma

- Excessive rain, power loss caused spills
- FDEP issued Consent Order
 - ❑ requires increased I&I efforts and repairs
 - ❑ lift station analysis and generator purchase
 - ❑ force main replacements
 - ❑ Loveland Grand Master project: gravity intercept
 - ❑ Project in lieu of fine = Beacon LS/FM ~\$25k
- Completion by December 2019 (no issues)



Thank you

Annual Report
available online at
CharlotteCountyFL.gov
Utilities Department

