



Town of Bronson Waccasassa Water & Wastewater Cooperative Third-party Review

Alan Garri, PE
Mark Thomas, PE
Benjamin Lehmann, EI

Kimley»Horn
Expect More. Experience Better.

1

Waccasassa Water & Wastewater Cooperative (W3C)

- Proposes to build regional water and wastewater treatment facilities to serve the Town of Bronson, Cedar Key, and Otter Creek
- Bronson is proposed to host the facilities
 - Upper Floridan Aquifer in Bronson provides higher quality water than in Cedar Key and Otter Creek
 - Wastewater disposal would be further from Gulf, limiting infiltration of treated wastewater into the estuary



2

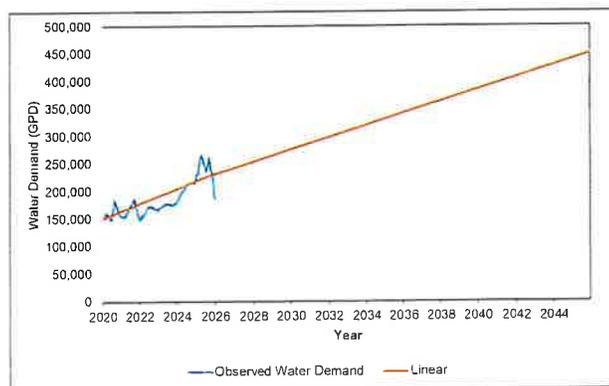
Town of Bronson Water Treatment Facility

- Bronson WTP permitted for 1.6 MGD max. day
- UFA withdrawal permitted for 1.18 MGD
- Serves ±1,125 persons via ±687 service connections
- Existing demand ±225,000 GPD

3

Water Demand Projections

- Used linear growth model
- Not projected to exceed permitted capacity over next 20 years



4

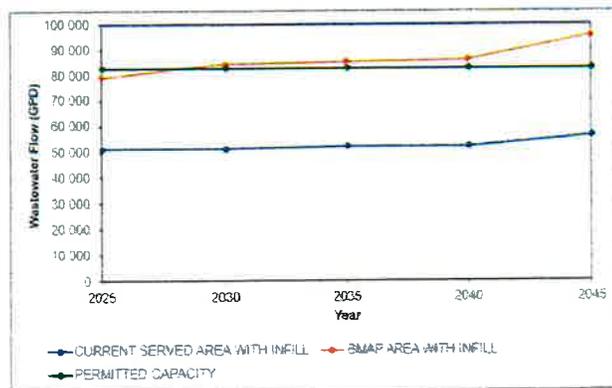
Town of Bronson Wastewater Treatment Facility

- Bronson WWTF permitted for 0.083 MGD
- Serves 400 persons via ±200 service connections
- Existing flow ±26,000 GPD
- Gross wastewater production of ±65 gallons per day per capita

5

Wastewater Flow Projections

- Infill in served area and septic to sewer conversion within Rainbow Springs BMAP
- Used SWFWMD small parcel population projections
- Full conversion of BMAP area requires WWTF improvements



6

Wastewater Regulations

- WWTF and disposal area are located outside of Rainbow Springs BMAP area
- WWTF is not subject to BMAP nutrient criteria
- ±360 homes using OSTDS within Rainbow Springs BMAP area
 - Need to connect to sewer or convert to enhanced OSTDS
 - Town is dependent on grant funding for these improvements



7

Conclusions

- Town does not appear to need increased water capacity within next 20 years.
- Town will need additional ±15,000 GPD WWTF capacity for full septic to sewer conversion of BMAP area
 - Existing capacity can support partial conversion of BMAP area
 - Could seek grant funds for capacity improvements
- Interim steps to meet BMAP requirements could include adopting an ordinance requiring enhanced OSTDS for replacements / new development in BMAP area

8



9