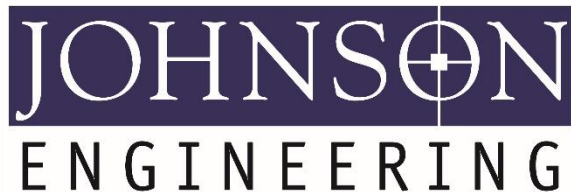


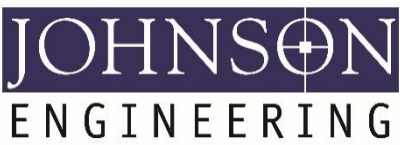


# CHARLOTTE COUNTY UTILITIES Babcock Ranch Water Supply

March 26, 2024



# 50-YEAR WATER USE PERMIT SCHEDULE



## CCU BABCOCK 50-YEAR WATER USE PERMIT SCHEDULE



Finalize  
Demand  
Projection



Draft Water Use  
Permit Application  
submitted to CCU



Submit Permit  
Application to  
SFWMD

Requests for Additional Information

2 to 24 months duration

Hydrogeological Data Collection, if Required

6 to 24 months duration

SFWMD Water Use Permit Issuance Between

2/1/2025 and 10/1/2028

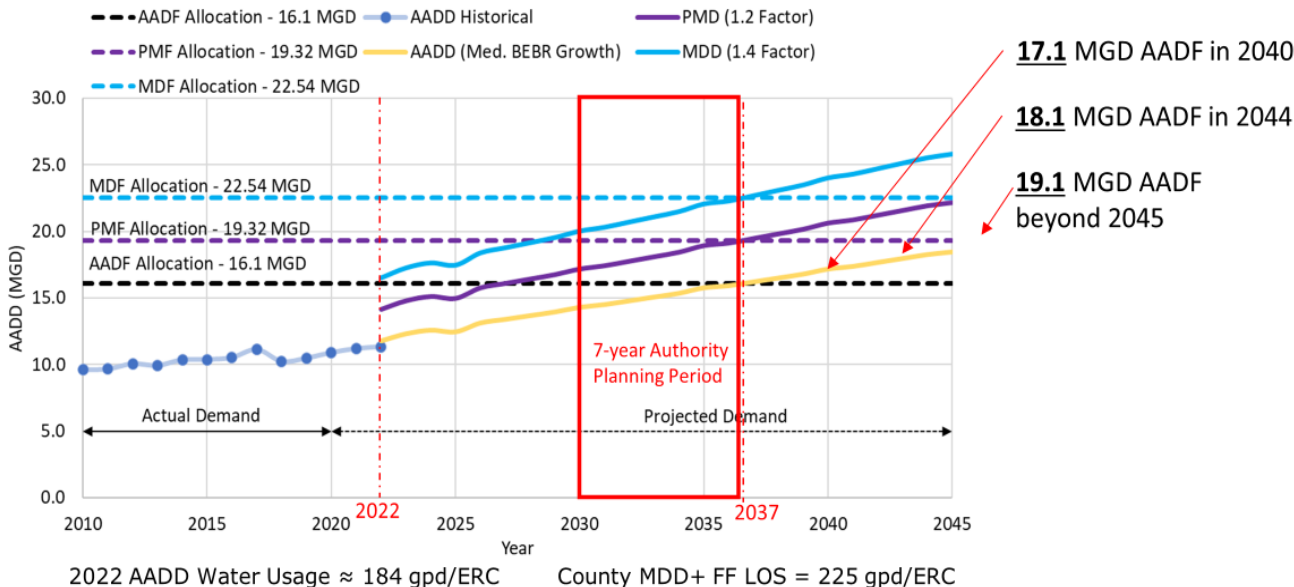
# EXTERNAL SUPPORT OF WUP ENSURES SUCCESS

- SFWMD Policies Support Diversity in Water Supply.
- CCU Proposed Lower Hawthorn Aquifer Wells are considered Alternative Water Supply.
- SFWMD Supports Alternative Water Supply Sources.
- SWFWMD Policies Support Diversity in Water Supply.
- SWFWMD Supports Alternative Water Supply Sources.
- SWFWMD Supports Projects with a Regional Benefit.
- Projects by PRMRWSA Members Provide Regional Benefits.
- PRMRWSA and its members benefit because of the regional benefit of source and location diversification contributing to overall resiliency.



## Port Charlotte Water System – Actual and Projected Water Demands

JonesEdmunds



Demand	2022	2023	2025	2030	2035	2036	2040	2045	Buildout
<b>AADD</b>									
184 gpd/ERC	11.8	12.3	12.5	14.3	15.8	16.0	17.2	18.4	26.3
<b>PMD</b>									
AADD x 1.2 = 221 gpd/ERC	14.2	14.8	15.0	17.2	18.9	19.2	20.6	22.1	31.6
<b>MDD</b>									
AADD x 1.4 = 258 gpd/ERC	16.5	17.2	17.5	20.0	22.1	22.4	24.0	25.8	36.9

AADF – Annual Average Daily Flow; AADD – Annual Average Daily Demand; PMF – Peak Monthly Flow; PMF – Peak Monthly Flow; MDF – Maximum Daily Flow; MDD – Maximum Daily Demand; gpd/ERC – gallons per day per equivalent residential connection



## **Water Needs Above Current 16.1 MGD AADF Not Exceeded Until Year 2037**

- 7-year window for PRMRWSA Capital Needs is the year 2030  
(year 2037 – 2030 = 7 years)
- Allows 6 years (year 2030 – 2024 = 6 years) to evaluate Babcock Ranch as an alternative water supply
- Timeline for Babcock WUP Issuance is between 02/01/2025 to 10/01/2028
- Within 1 to 4 years, we will know the status of SFWMD WUP

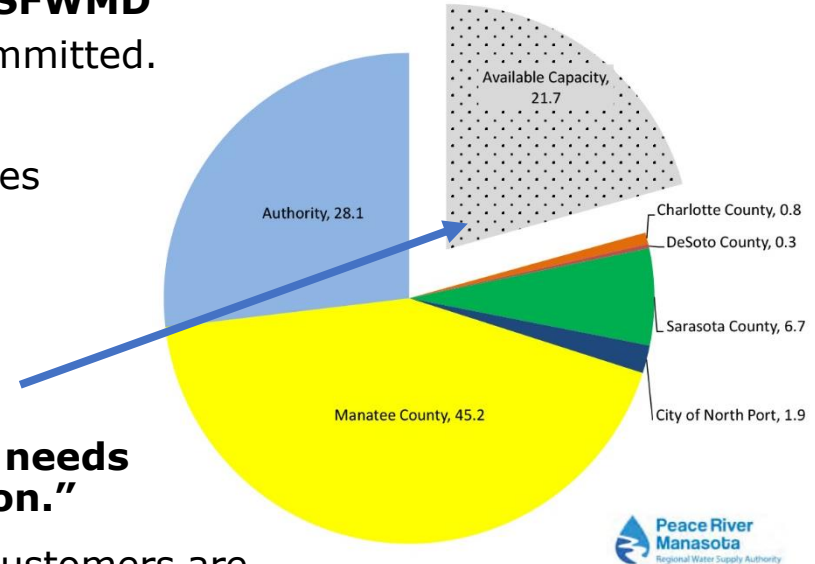
**No Need to Pay Now for Future Water Allocation  
of 1.0, 2.0 or 3.0 MGD AADF from PRMRWSA**

- **Babcock Ranch WUP – In progress**
- **Babcock Ranch Water Supply – Preliminary Engineering Report and Feasibility Study**
  - Develop detailed engineering information on:
    - Site analysis
    - Deep injection well for brine disposal
    - Brackish wellfield
    - Transmission pump station and pipeline to water treatment plant
    - R.O. water treatment facility – initial size, future expansion, treatment components
    - Finished water ground storage tanks and high-service pump station
    - Water blending and chemical stabilization at regional interconnect
    - Transmission pipelines, connection points
    - Required land area(s), acquisition, fiscal and legal needs
    - Construction cost estimates
  - Timeline: 3 years

# Early Commitment of 1 to 3 MGD AADF from PRMRWSA

## X CONS

- **Negatively impacts water supply need evaluation by SFWMD**
  - Delays water need 4 additional years for each 1 MGD committed.  
**1 MGD – 2040 | 2 MGD – 2044 | 3 MGD – 2048**
- **“Use it or lose It!”** The current Babcock Ranch WUP expires in 2031. If no progress is realized, WUP will be in jeopardy.
- Existing WUP is granted on State land, Charlotte County may lose this wellfield opportunity if not acted upon.
- **21.7 MGD of water available presently member-wide.**
- **Members have shared water to overcome short-term needs for the past 20 years – “No need to make rush decision.”**
- Buying water now that is not required until 2037. Current customers are incurring costs (construction and O&M) prematurely (14 years too early).
- Does not support source and geographic location diversity contributing to overall resiliency to PRMRWSA and its members.
- CCU would like to diversify sources and supply. **Do not place all your water supply source in one basket!**



## ✓ PROS

- Team player – if all members commit and pay equally for the project.

# RECOMMENDATION

- Delay commitment of **Future Water Allocation** from PRMRWSA until Babcock Ranch WUP and Water Supply Feasibility Studies are complete
- Anticipated by end of year 2028.

