

Recommended JEA Consolidated Consumptive Use Permit

Overview

Background

- JEA, based in Duval County, is the largest water supply utility within the St. Johns River Water Management District's boundaries, serves a population of about 1 million, and has the District's largest permitted allocation of groundwater.
- The sum of all of the existing JEA permit allocations is 155 million gallons of water per day (mgd). JEA's 2010 demand was 116 mgd. Its highest annual water use was 134 mgd in 2007.
- In September 2005, the District issued a consumptive use permit (CUP) that consolidated 10 JEA well field permits into one permit. In September 2007, JEA submitted a permit application to the District to renew and modify its existing permit, which would consolidate the 17 remaining JEA CUPs into the one permit. JEA requested a permit allocation of 187.78 mgd of water in 2030.
- In response to a District letter seeking additional information, JEA submitted a revised requested allocation in November 2010 for 165 mgd.

CUP Recommendation

- A District staff permit recommendation is scheduled to be considered by the District's Governing Board on May 10, 2011.
- District staff are proposing a phased permit that allocates a maximum base allocation of 142 mgd of groundwater, corresponding to JEA's demonstrated water demand in 2021. If JEA meets several key conditions, the allocation could be increased to 155 mgd in 2031, and if

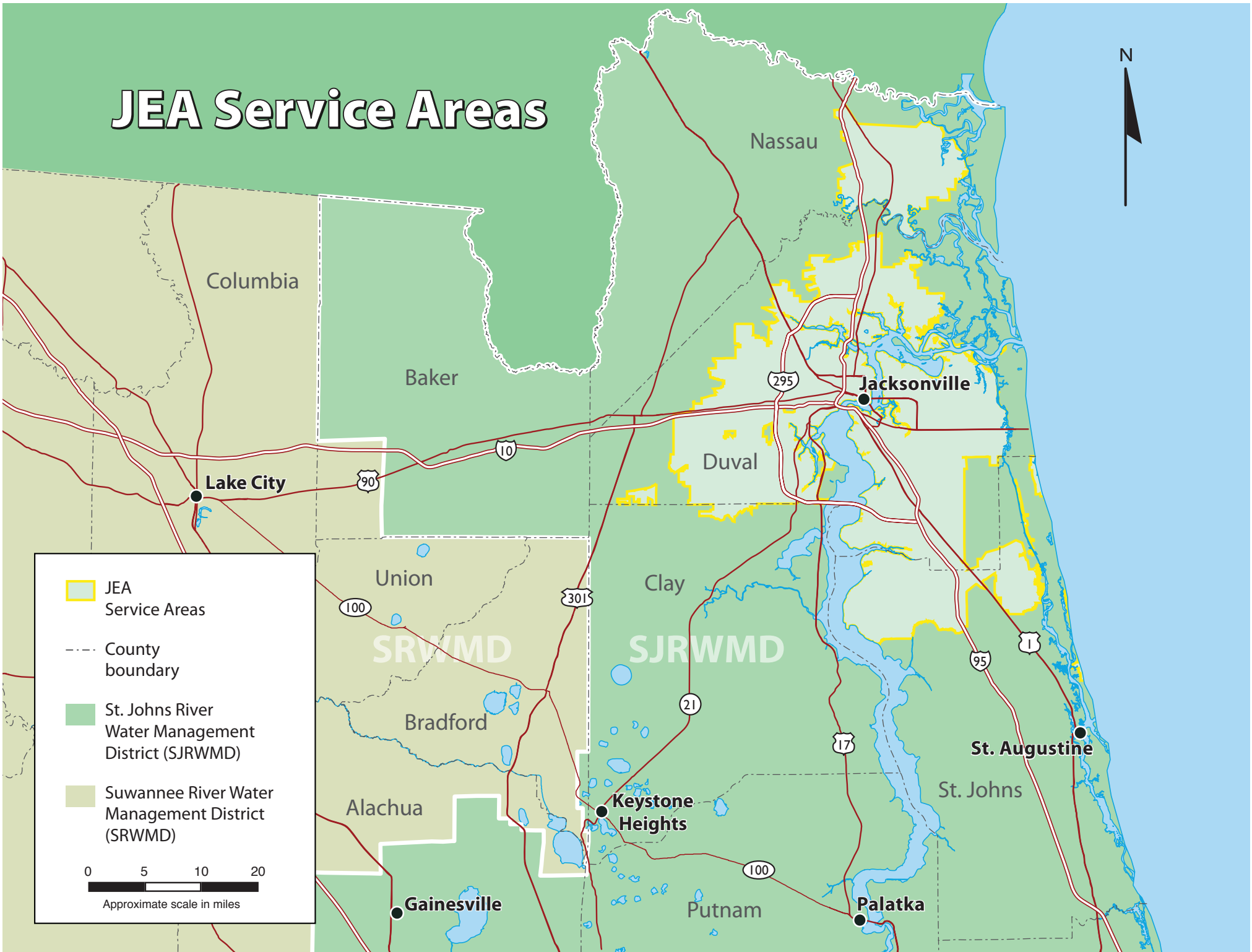
JEA achieves reuse greater than the permit's conditions by providing more reclaimed water to other permitted groundwater users, the allocation could increase up to 162.5 mgd as these other groundwater uses are reduced or eliminated.





- Key permit conditions include:
 - Actively participating in the development and implementation of an approved minimum flows and levels (MFL) prevention and recovery strategy for Cowpen Lake and lakes Geneva and Brooklyn in Keystone Heights.
 - Providing reclaimed water for reuse within JEA's service area in the following amounts:
 - ▶ 31.55 mgd by the end of 2020
 - ▶ 37.36 mgd by the end of 2025
 - ▶ 43.76 mgd by the end of 2030(JEA reused 11.05 mgd of its wastewater flow in 2010.)
 - Submitting an alternative water supply facilities master plan by Feb. 28, 2015, to provide for an additional 20 mgd from sources other than groundwater, and facilities to supplement groundwater and reclaimed water use when needed.
- JEA would also be required to construct several upper and lower Floridan aquifer monitoring wells in the region, conduct quarterly wetland monitoring at nine sites, quarterly groundwater quality monitoring at 125 well sites, quarterly groundwater quality monitoring for selected chemical components at 54 well sites, and monthly water level monitoring at 29 sites.



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JEA Service Areas



-  JEA Service Areas
-  County boundary
-  St. Johns River Water Management District (SJRWMD)
-  Suwannee River Water Management District (SRWMD)

0 5 10 20
Approximate scale in miles