

# Florida Keys Aqueduct Authority Water Use Permit Modification/Renewal

*Water Supply Department  
March 13, 2008*



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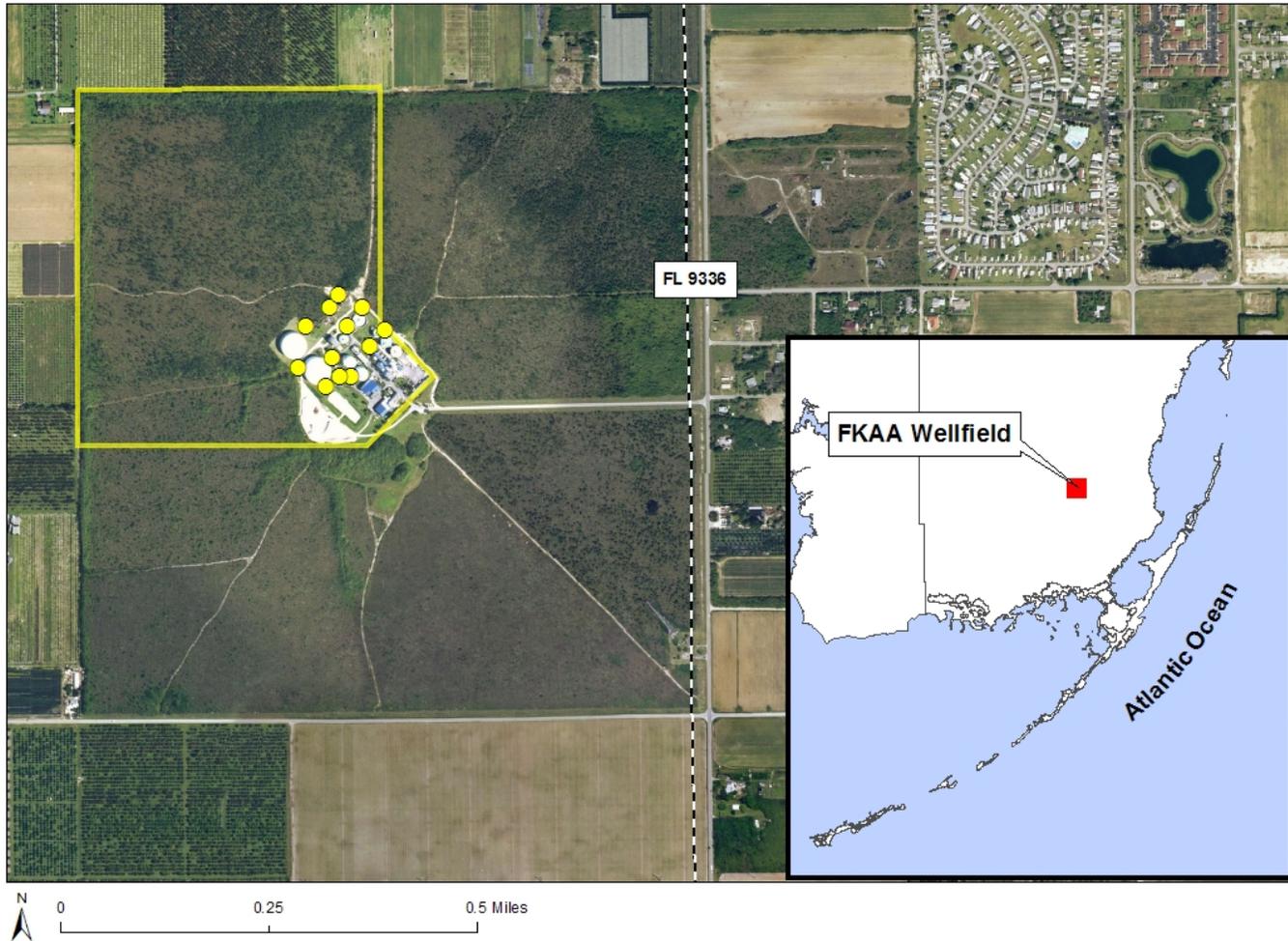
# Project Summary

- **Applicant:** Florida Keys Aqueduct Authority
- **Use Type:** Public Water Supply
- **Allocation:** Annual: 8,751 MGY (23.97 MGD)  
Max. month: 809 MG (26.9 MGD)
- **Water Sources:** Biscayne and Floridan Aquifers
- **Permit Duration:** 20 years

# Project Summary

- Population: 115,200 (2005)  
159,790 (2026)
- Treatment Types: Lime softening(Biscayne)  
Reverse Osmosis (Floridan)
- Per Capita: 150 gpcd treated
- Reclaimed Water: 0.63 MGD

### FKAA Wellfield



## Additional Background Information

- Existing permit required construction of an Aquifer Storage & Recovery (ASR) well, to be later converted to a Reverse Osmosis (RO) well
- Delays in obtaining DEP permit for ASR well construction resulted in the District and FKAA entering into a consent agreement in 2003
- Consent agreement was amended in 2006 to address further delays in DEP permitting process
- Consent agreement amended again in 2007 to eliminate requirement for ASR and go straight to blending and reverse osmosis
- Production well complete and Floridan water blending has started

# Summary of the Requested Permit Modifications

- **Additional Source: Floridan Aquifer Well**
  - **Initial use as blending**
  - **Reverse Osmosis Plant Completed in 2010**
- **MFL/CERP/Regional Water Availability Consistency**
  - **Biscayne Aquifer limited to 17 MGD during dry season**  
(MFL Criteria)
  - **Biscayne Aquifer limited to 17.79 MGD during wet season**  
(Regional Water Availability Criteria)
  - **AWS (Floridan Aquifer) to provide up to 6 MGD treated water**
- **Schedules and deadlines in Consent Agreement incorporated into permit requirements**

# Special Limiting Conditions

- Reverse osmosis treatment plant constructed by December 31, 2009
- Reverse osmosis plant operation tied to DEP permits
- Five year compliance reporting
- Special Event Peaking Factor may be issued by District to allow a temporary allocation up to 26.6 MGD
- Reuse Plan required under permit
- Salinity Monitoring Network
- If it is determined the permit is inconsistent with recovery plan for Everglades, permit subject to modification

## **Staff Recommendation**

**Approve the renewal and modification of Water Use Permit 13-00005-W (Application No. 050329-23), for the Florida Keys Aqueduct Authority for a 20 year duration subject to 35 limiting conditions**