Drivers and Incentives for Alternative Water Supply Development in Florida

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F.S. 373.019(1) “Alternative water supplies” means salt water; brackish surface and groundwater; surface water captured predominately during wet-weather flows; sources made available through the addition of new storage capacity for surface or groundwater, water that has been reclaimed after one or more public supply, municipal, industrial, commercial, or agricultural uses; the downstream augmentation of water bodies with reclaimed water; stormwater; and any other water supply source that is designated as nontraditional for a water supply planning region in the applicable regional water supply plan.
What’s NOT an Alternative Supply
What is Alternative Water Supply

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Florida 2015-2040 Population Projections

Data from BEBR Bulletin 168, April 2014
Water Use Changes 2010-2035

357 – 417 MGD

256 – 269 MGD

1,200 – 1,500 MGD

1,303 - 1,620 MGD

3,300 – 4,240 MGD

State-Wide
From ~6,400 MGD – To ~8000 MGD
1,600 MGD More Supply

Source: FDEP Annual Regional Water Supply Planning, December 2014
It’s Not This Easy
NW Florida
Floridan Aquifer SW Intrusion
SW Intrusion in Surface Reservoir
NW Florida
Floridan Aquifer  SW Intrusion
SW Intrusion in Surface Reservoir

NTB WUCA
Floridan Aquifer
Wetland & Lake Levels
NW Florida
Floridan Aquifer  SW Intrusion
SW Intrusion in Surface Reservoir

NTB WUCA
Floridan Aquifer
Wetland & Lake Levels

SWUCA
Floridan Aquifer
Salt Water Intrusion, Ridge
Lake Levels, & River Flow
NW Florida
Floridan Aquifer  SW Intrusion
SW Intrusion in Surface Reservoir

Lower West Coast
Shallow & Intermediate Aquifers, Lake “O”
Wetland Impacts, Salt Water Intrusion,
Existing Legal Users

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**Lower East Coast**
Lake Okeechobee & Biscayne Aquifer
Impacts to Everglades
NTB WUCA
Floridan Aquifer
Impacts to Wetland & Lakes

SWUCA
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Upper East Coast
Lake Okeechobee & Surficial Aquifer
Wetlands, Saltwater Intrusion

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NW Florida
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South SJRWMD
GW use at/near
Sustainable limits

Upper East Coast
Lake Okeechobee & Surficial Aquifer
Wetlands, Saltwater Intrusion

Lower East Coast
Lake Okeechobee & Biscayne Aquifer
Impacts to Everglades
Florida Water Supply

Population Growth

Traditional Sources

FLORIDA WATER SUPPLY
Financial

$4.3B in AWS Projects since 2006
$790M in State & WMD Funding

Figures from FDEP “Annual Report on Regional Water Supply Planning 2014”
Regulatory

- 20-Year WUP/CUP for AWS
- Streamlined Permitting Process
- 426 AWS Projects
- 439 MGD Additional Supply

Figures from FDEP “Annual Report on Regional Water Supply Planning 2014”
On-Tap Today

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