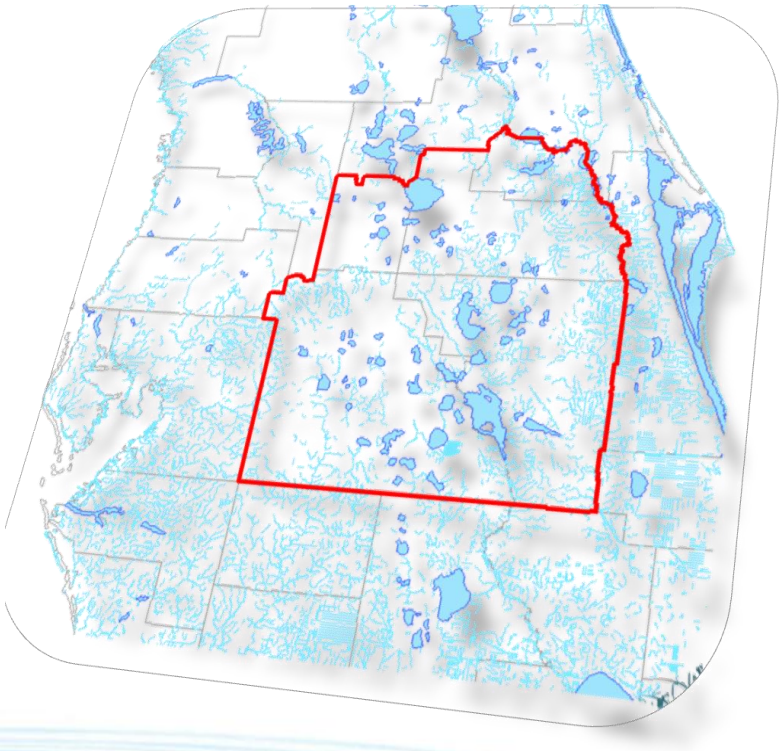
Central Florida Water Initiative

Water For Tomorrow



Welcome and Overview

Glenda Hood
triSect

Central Florida Water Initiative: *Why this Matters*

Jim Fletcher
Extension Director
UF IFAS Osceola Extension

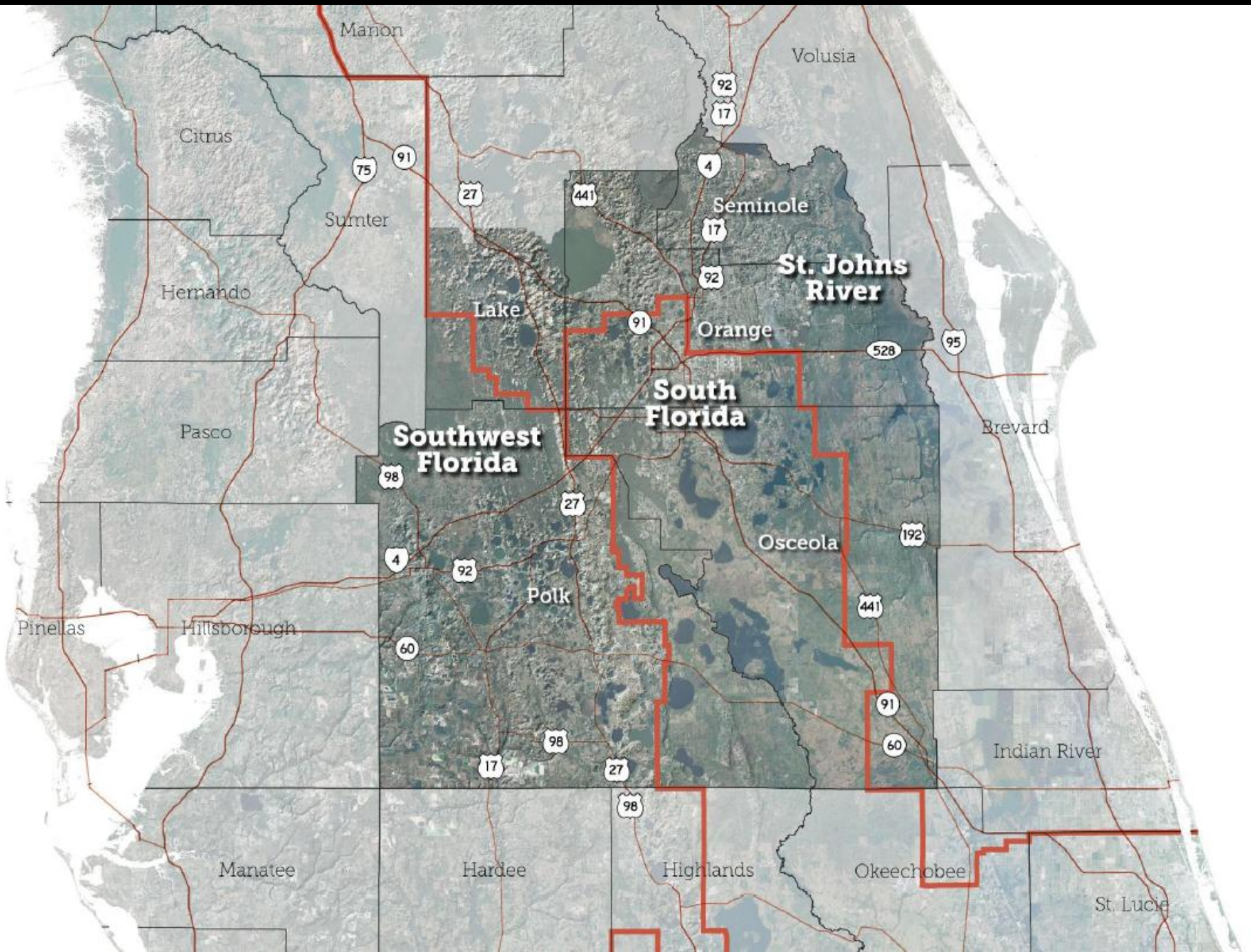
Michael Minton
Shareholder

Dean Mead

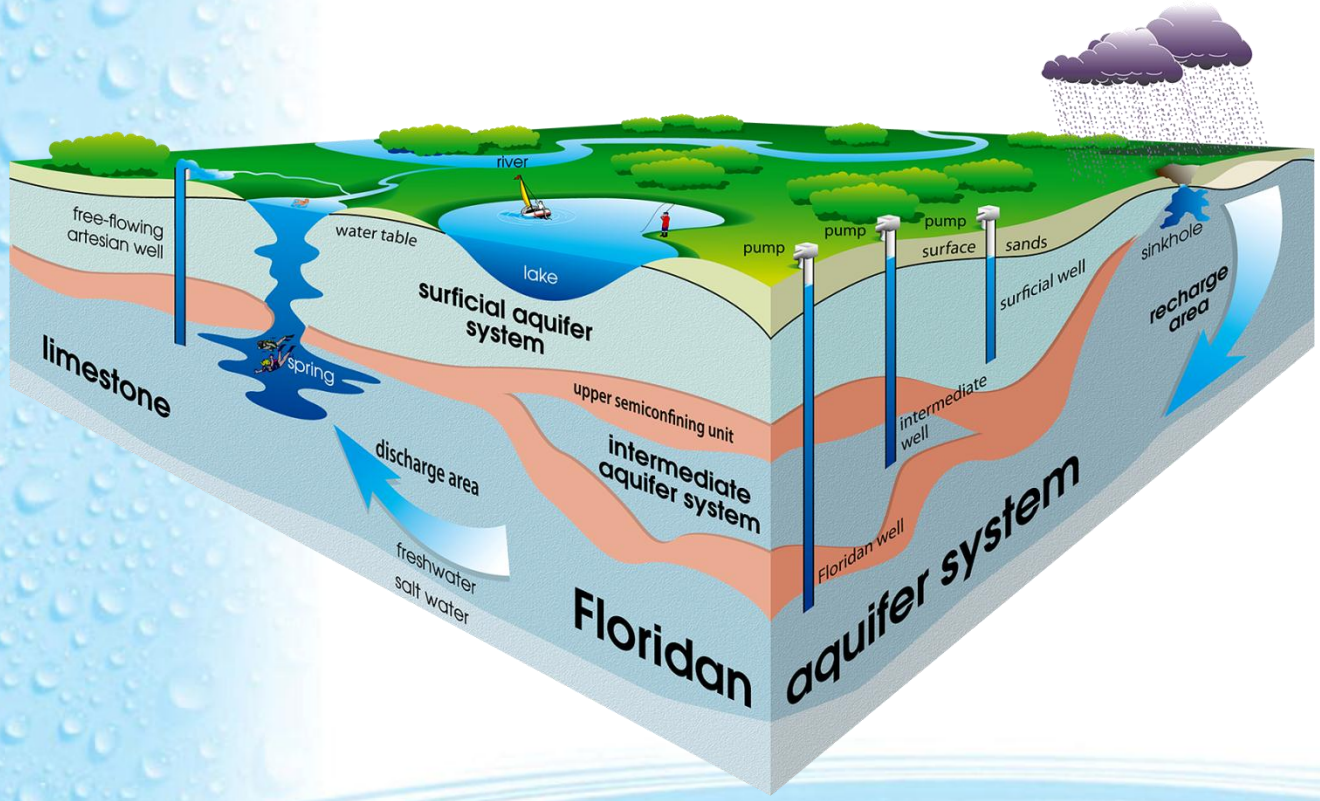
Background and Review
of the
Proposed Solution Plan

Mark Hammond
Director, Resource Management
Southwest Florida WMD

Central Florida Water Initiative



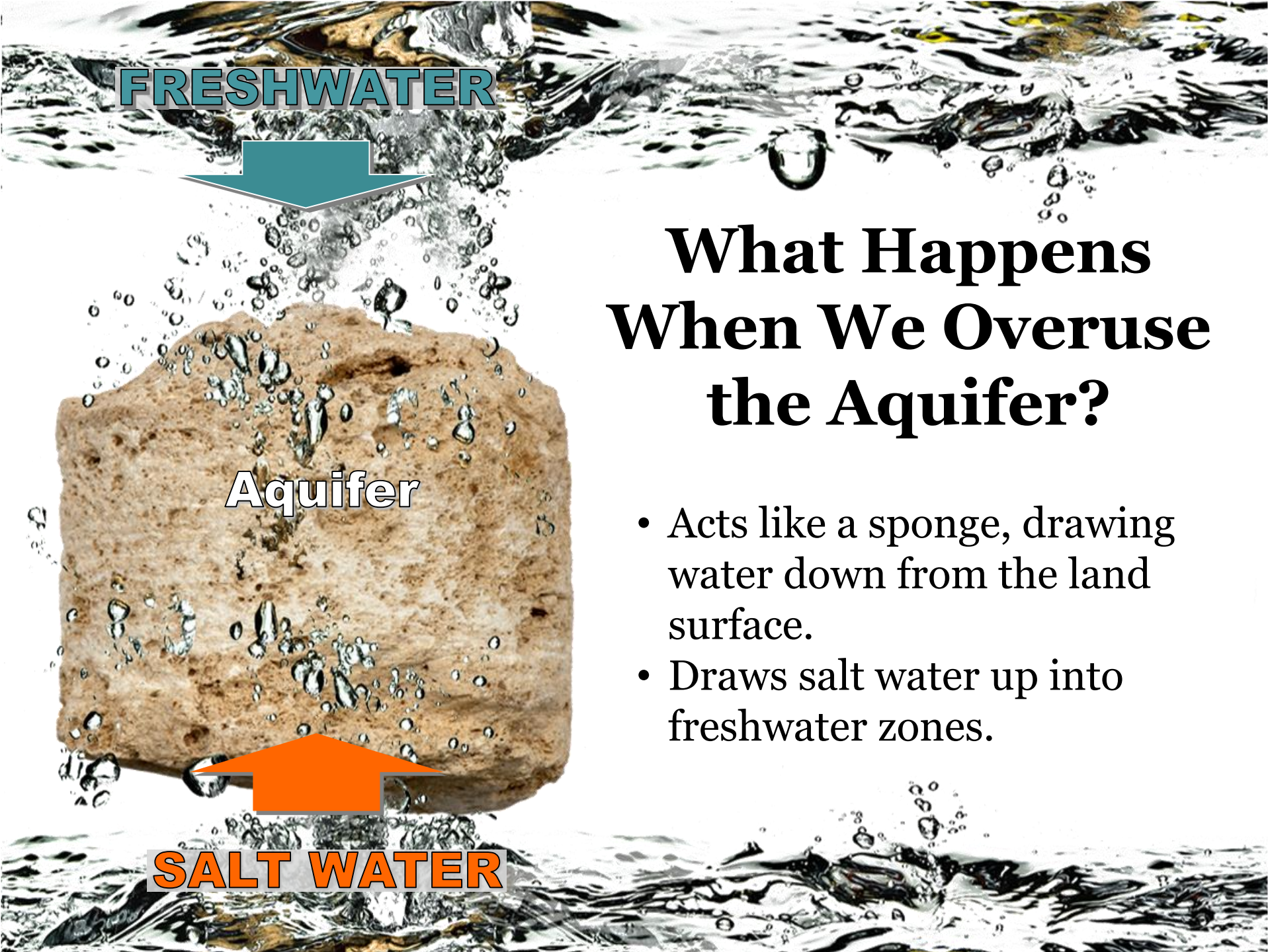
Where Does Our Water Come From?



More than 90% of our water comes from the aquifer system.

What Happens When We Overuse the Aquifer?

- Wetlands
- Spring flow
- Lake and river levels



What Happens When We Overuse the Aquifer?

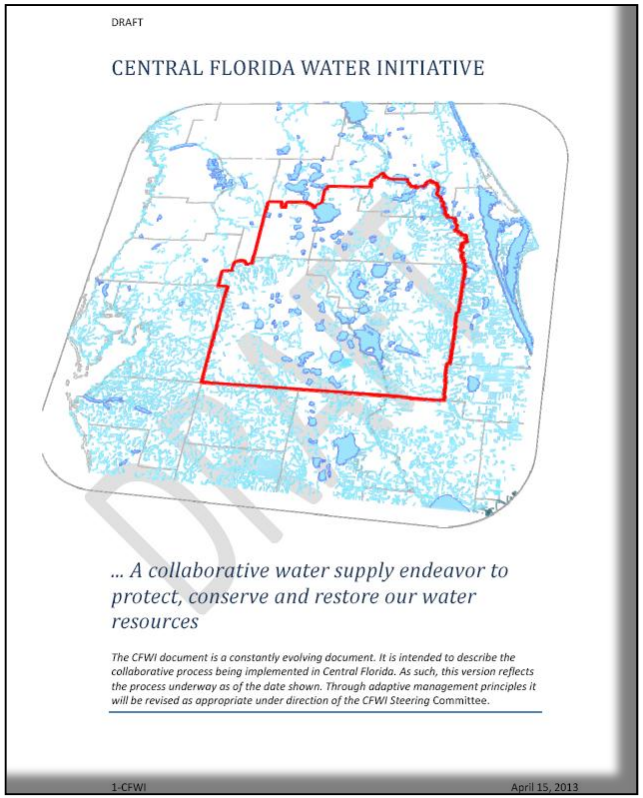
- Acts like a sponge, drawing water down from the land surface.
- Draws salt water up into freshwater zones.

What is CFWI?

A collaborative **regional** water supply effort to protect, conserve and restore our water resources.

Guidance Document Principles

1. Identify sustainable quantities of groundwater sources
2. Develop strategies to meet water demands
3. Establish consistent rules


DRAFT

CENTRAL FLORIDA WATER INITIATIVE

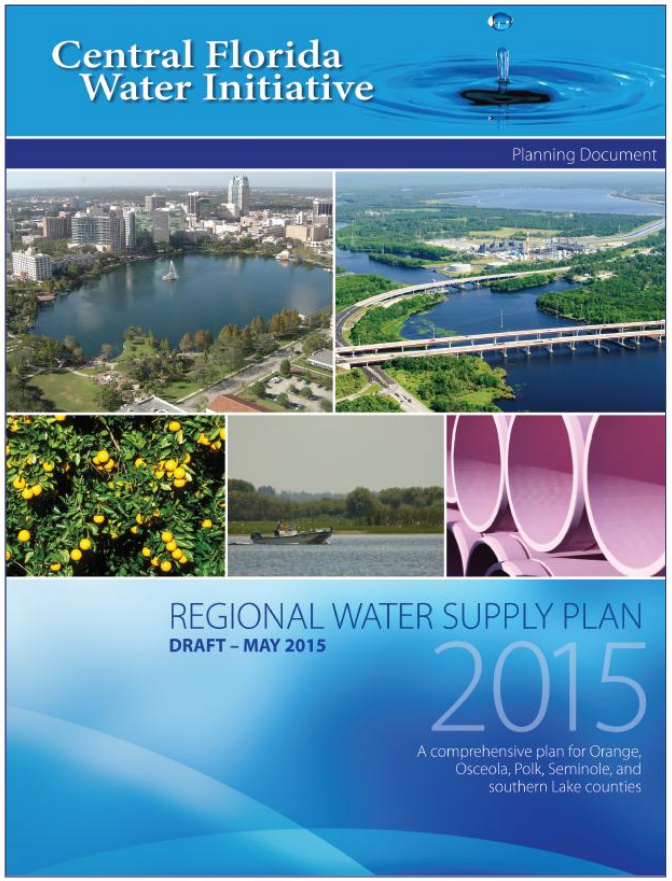
... A collaborative water supply endeavor to protect, conserve and restore our water resources

The CFWI document is a constantly evolving document. It is intended to describe the collaborative process being implemented in Central Florida. As such, this version reflects the process underway as of the date shown. Through adaptive management principles it will be revised as appropriate under direction of the CFWI Steering Committee.

1-CFWI April 15, 2013

One RWSP for the CFWI Region

- Collaborative effort
- Scientific foundation
- Stakeholder driven
- Demands from all categories
- Potential sources and projects
- Water resource evaluation
- Funding mechanisms
- Update every 5 years
  - 20-year planning horizon



Solutions Discussion

Mark Hammond
Director, Resource Management,
Southwest Florida WMD

Steven Memberg
Chief Scientist, South Florida WMD

Michael Register
Acting Executive Director, St. Johns River WMD

Solutions Team

- Subtasks:
  - Review regional alternatives
  - Develop water supply and conservation options
  - Identify partnerships/encourage interconnects
  - Identify need for recovery/prevention
  - Monitoring/Assessment in conjunction with DMIT
  - Workshops and public meetings
  - Identify funding needs for regional projects

Key Findings

Solutions Phase

- Water conservation is an important element
- Sufficient options to meet the regions' needs through 2035
  - 150 options – more than 334 mgd
- Conceptual management strategies can be developed into specific projects
- Stakeholder engagement has and will continue to be important
- Project cost estimates scenario
  - $2.8 billion for 225 mgd
- Establishment of consistent rules and regulations to be developed to implement the results of CFWI Planning effort
- Implementing results of CFWI is critical to long-term sustainability

Implementation Strategy

- Implement Water Conservation Programs
- Develop Specific Prevention and Recovery Projects
- Support Development and Implementation of Regional Project Solutions
- Support Additional AWS Projects
- Improve Water Resource Assessment Tools and Supporting Data
- Develop Options for Consistent Rules and Regulations
- Continued Communication and Outreach
- Identify Options for Future CFWI Framework to Support Implementation Strategies

Water Conservation

- 5-year Plan
  - Public Supply & Other Self Supply
    - 10 BMPs
  - Adopt High-Efficiency Standards
    - Landscape and Irrigation Systems
    - Plumbing Fixtures and Appliances
  - Public Education
  - Clearinghouse/Conservation Planning Tools/Research
  - Agriculture (Programmatic Approach)
    - 7 BMP categories
    - Includes training workshops, on-site demonstrations, mobile labs and support for Extension Services

Prevention and Recovery

- $2 million in 2016 and $1.5 million in 2017
  - Evaluate recovery options for 3 waterbodies
  - Options include
    - Conservation
    - Recharge
    - Relocation of withdrawals
    - Development of AWS

Regional Project Solutions

Projects	Total Quantity	Year 1 (MIL $)	Year 2 (MIL $)	Years 3-5 (MIL $)	Total Cost (Mil $)
Conservation (All)	36.8 mgd	3.8	6.1	24.5	170
Recovery Projects		2	1.5	10	50
Data Monitoring & Investigation		3	7.5	23.1	34.1
Other Investigations		1.3	3.3	3.7	8.9
Groundwater Projects					
South Lake County Wellfield	12.7 mgd			60.7	116.5
Cypress Lake Wellfield	30 mgd	14	25.8	153.7	374.3
Southeast Polk County Wellfield (centralized)	30 mgd	2.4	2.6	129.5	284.6
Reclaimed Water Projects					
Project RENEW	9.2 mgd			24.6	50.5
West Ditch Stormwater for Reuse Augmentation	0.9 mgd	1.6	2.3	11	28.2
160-ac Site Indirect Potable Reuse	4.5 mgd	0.6	0.7	6.4	7.7
TECO Polk Power Reuse	10 mgd				97
AFIRST/Altamonte Springs	4.5 mgd				15
Surface Water Projects					
St. Johns River/Taylor Creek Reservoir	54 mgd			10	637.6
St. Johns River near State Road 46	40 mgd				584.3
St. Johns River near Yankee Lake	40 mgd		2	20	536.7
Polk Regional Alafia River Basin	10 mgd				263.4
Grove Land Reservoir and Stormwater Treatment	122.4 mgd raw water	3	3		435.4
Stormwater Projects					
Judge Farms Reservoir and Impoundment	5 mgd	0.5	17.7	6.8	28.3
Lake Wailes Stormwater Mitigation	1.4 mgd		1.2	12.4	13.6
Reedy Creek Watershed	4 mgd				1.6
Total Financial Plan	224.5 mgd	32.2	73.7	496.4	2,775.7
Total Solutions Projects	415.4 mgd				3,737.7

Implementation Strategy

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Other Issues?

- **Agricultural Conservation**
  - Is using less water going to work against ag, especially those implementing conservation measures?
  - Financial feasibility of conservation measures
  - Cost share programs to implement conservation measures
- **Regulation**
  - CUP renewal process/review process
  - Will solutions affect existing permits
  - How will allocations for agriculture be considered, especially new permits (i.e. compared to process of a utility/authority)
  - Are long range supply plans for agriculture the same as for public supply?
- **AWS and effects on ag water use**
  - Source substitution
  - Surface water
  - Groundwater
  - Tail water recovery

CFWI Plan Schedule

May/June/July

- May 8 Steering Committee Meeting
  - Approve Draft CFWI Document Series for Public Review
- Public review period
  - Post to website May 8
  - Extended Review Period - ~82 days
  - Ends July 31

August/September

- Finalize CFWI Document Series

October

- Steering Committee Meeting
  - Approve CFWI Document Series for Board Approval

November

- District Governing Board Meetings
  - Approve CFWI Document Series

CFWI Community Outreach

Other Workshops

- Thursday, May 21st – Focus on Government & Business
  - 9:00am – 11:30am, ChampionsGate Golf

Public Meetings

- Monday, June 1st
  - 4:30pm – 6:30pm, Chain of Lakes Complex, 210 Cypress Gardens Blvd SW, Winter Haven
- Thursday, June 4th
  - 4:30pm – 6:30pm, 300 West Plan Street, Winter Garden

Regional Meeting in Jacksonville

- Late June / Early July

Thank you!

For more information visit
cfwiwater.com