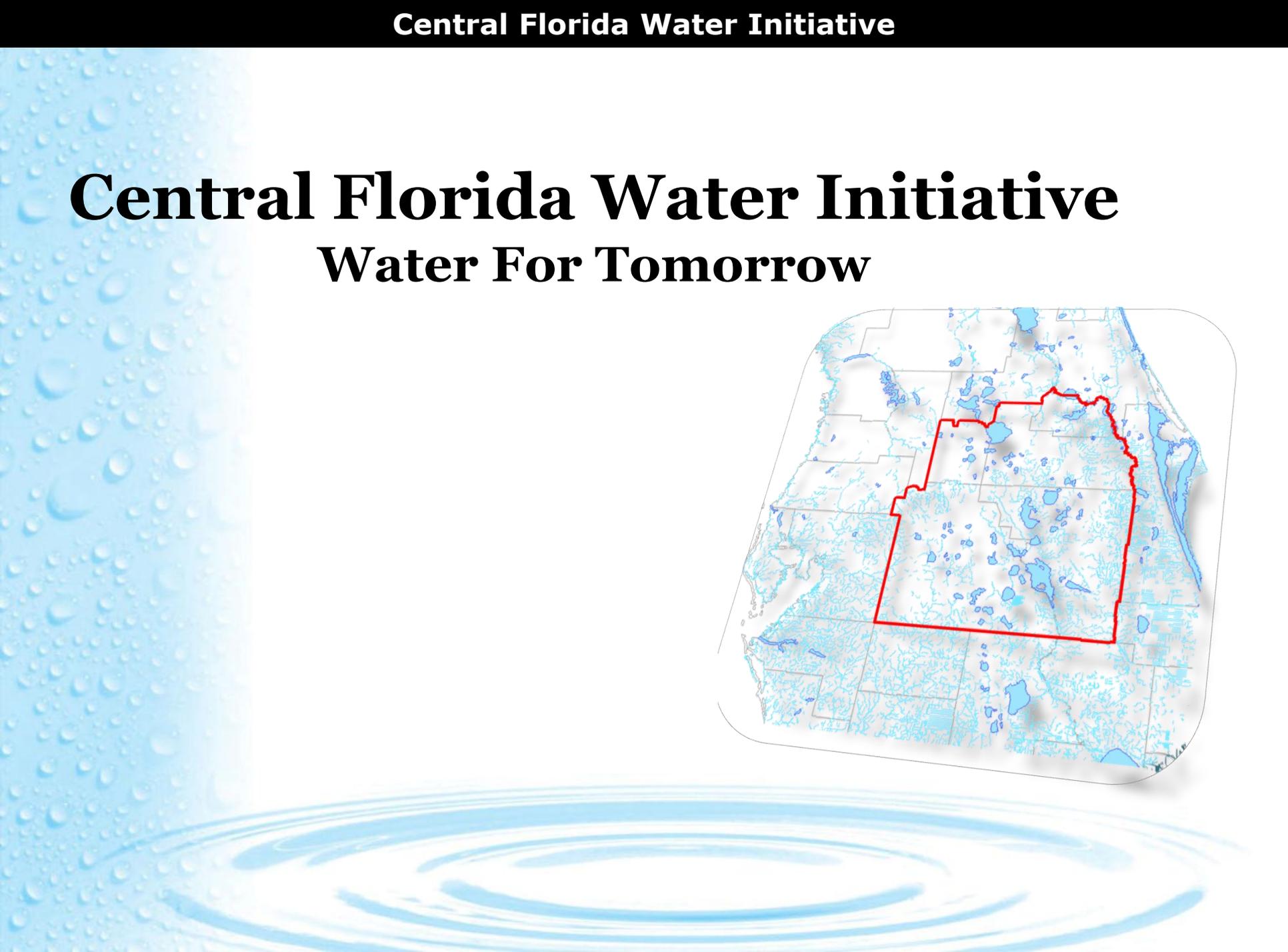
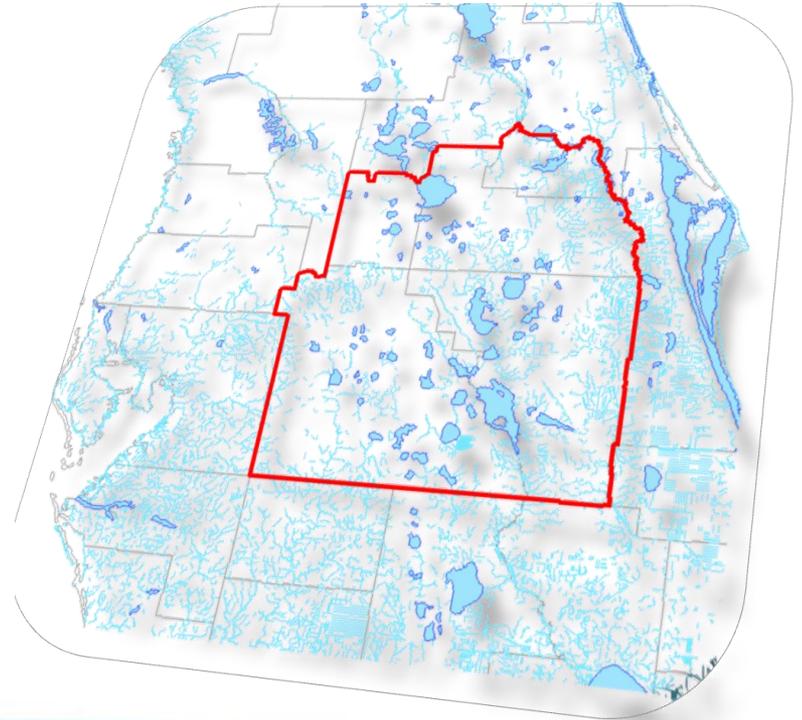


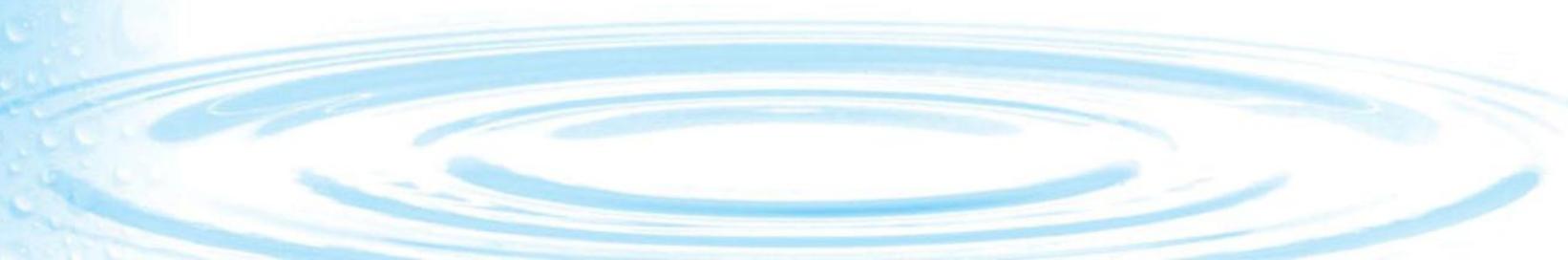
Central Florida Water Initiative

Water For Tomorrow



Welcome and Overview

**Shelley Lauten
triSect**



**Central Florida
Water Initiative:
*Why this Matters***

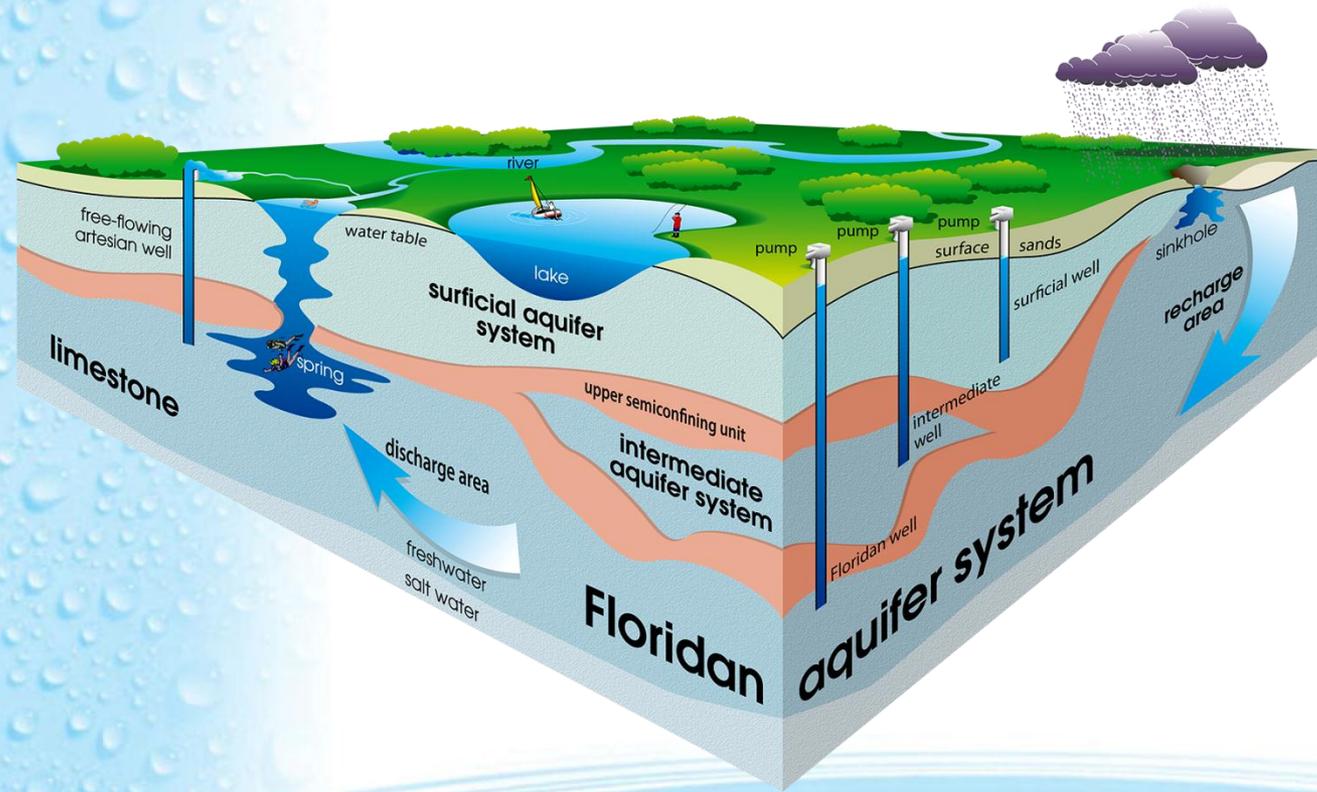
Joe Kilsheimer
Mayor
City of Apopka

James Burks
Owner
Senninger Irrigation

**Background and Review
of the
Proposed Solution Plan**

Mark Hammond
Director, Resource Management
Southwest Florida WMD

Where Does Our Water Come From?



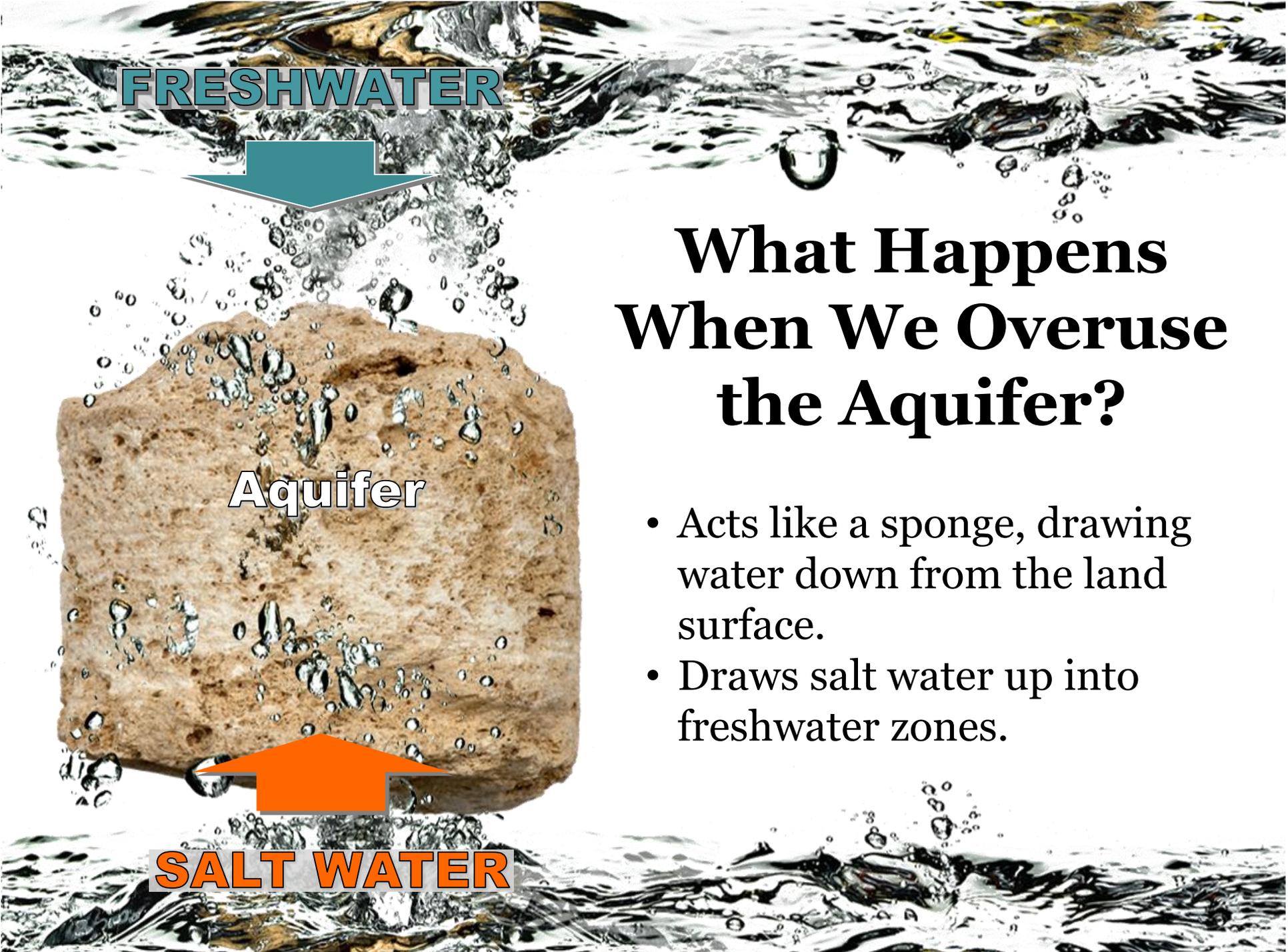
More than 90%
of our water
comes from the
aquifer system.



What Happens When We Overuse the Aquifer?

- Wetlands
- Spring flow
- Lake and river levels





FRESHWATER

Aquifer

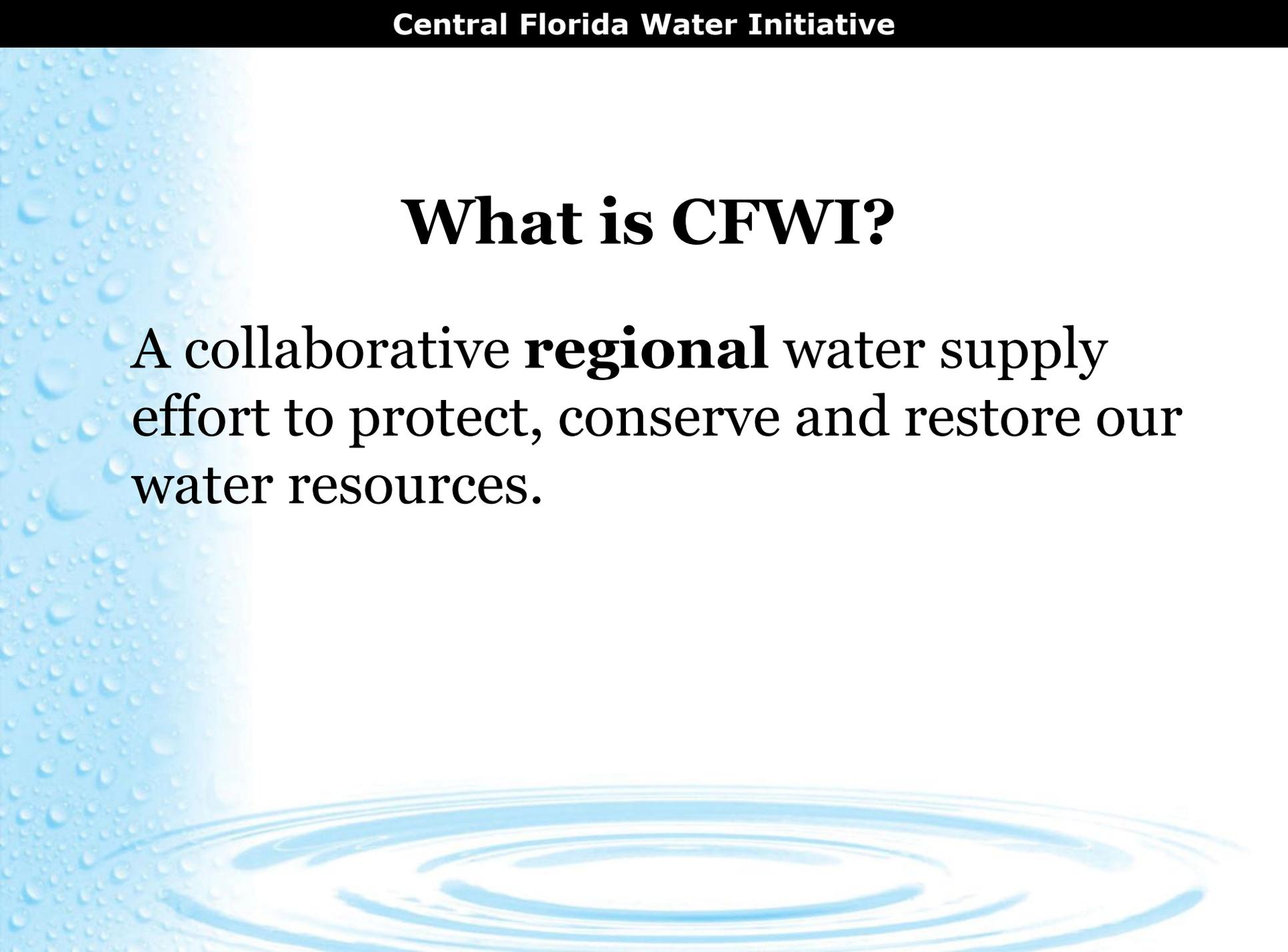
SALT WATER

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.

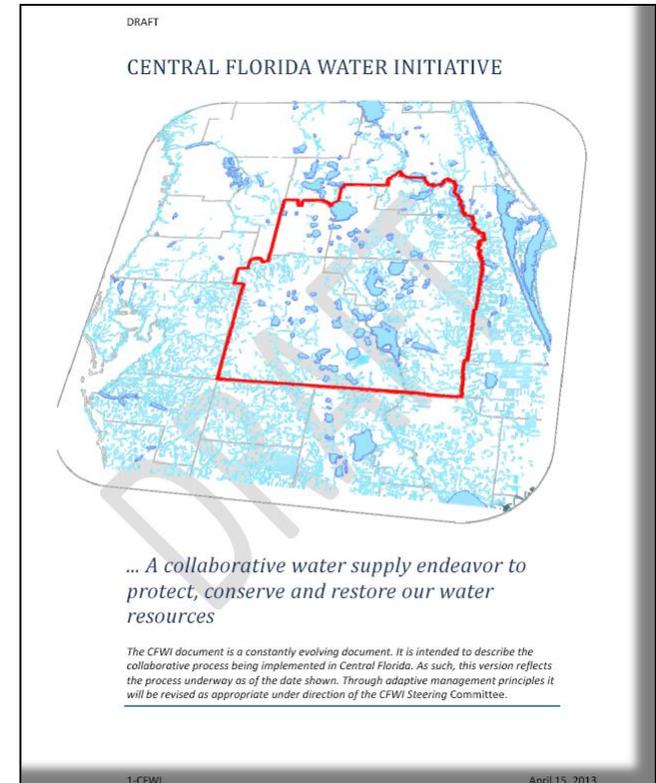
What is CFWI?

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



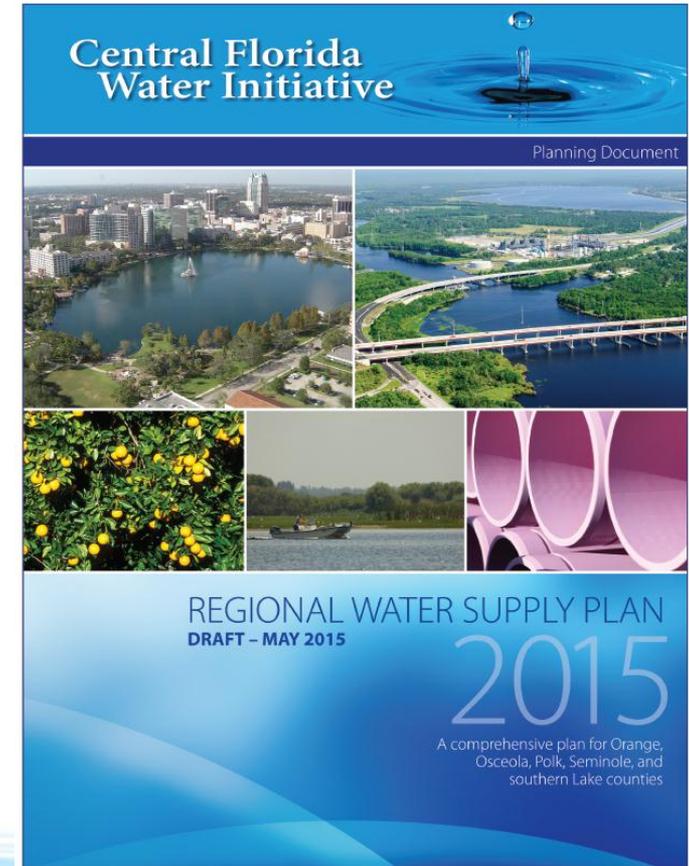
Guidance Document Principles

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



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**

Len Lindahl, P.E.

Assistant Executive Director, South Florida WMD

Joanne Chamberlain

CFWI Initiative Leader, 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

- Implement Water Conservation Programs
- Develop Specific Prevention and Recovery Projects
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Other Issues?

Business

- Why is the CFWI important to the business community and my business?
- What are the economic risks associated with this?
- How can we get equity within the CFWI communities in order to avoid economic disparities?
(funding, permitting, groundwater allocation)?

Other Issues?

Government/Utilities

- How will the CFWI impact my CUP?

(Consumptive Use Permit)

- When will MFL prevention and recovery strategies be started and completed?
- Will the MFL prevention and recovery strategies be combined with the implementation phase of CFWI?
- What options exist for small utilities and how will they know whether they need to be a part of a large regional project?

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

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

Central Florida Water Initiative

WATER FOR TOMORROW



The basics of water and CFWI

Learn about where your water comes from today and planning for tomorrow.



Draft plans for review

View central Florida's water supply planning documents and provide comments.



Meetings and events

Find details about public involvement opportunities.



Technical teams

Find information about technical teams, steering committee and technical meetings.



Water conservation

Discover some of the most popular and preferred ways to save water.



Other helpful information

Explore the world of water through related links, publications and videos.