



State Affairs Committee

Thursday, January 22, 2015

1:00 PM

Morris Hall (17 HOB)

Steve Crisafulli
Speaker

Matt Caldwell
Chair

Committee Meeting Notice

HOUSE OF REPRESENTATIVES

State Affairs Committee

Start Date and Time: Thursday, January 22, 2015 01:00 pm
End Date and Time: Thursday, January 22, 2015 03:00 pm
Location: Morris Hall (17 HOB)
Duration: 2.00 hrs

Comments by the Honorable Adam Putnam, Commissioner of Agriculture and Consumer Services, regarding Florida's water policy

Introductory presentation by the Department of Environmental Protection regarding water quality and supply in Florida

NOTICE FINALIZED on 01/15/2015 16:09 by Love.John

Florida Department of Environmental Protection

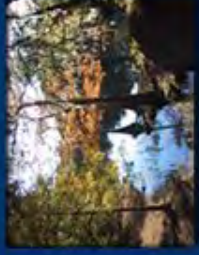


Water Quality and Water Supply in Florida

State Affairs Committee

January 22, 2015

Drew Bartlett, Deputy Secretary
Water Policy & Ecosystem Restoration





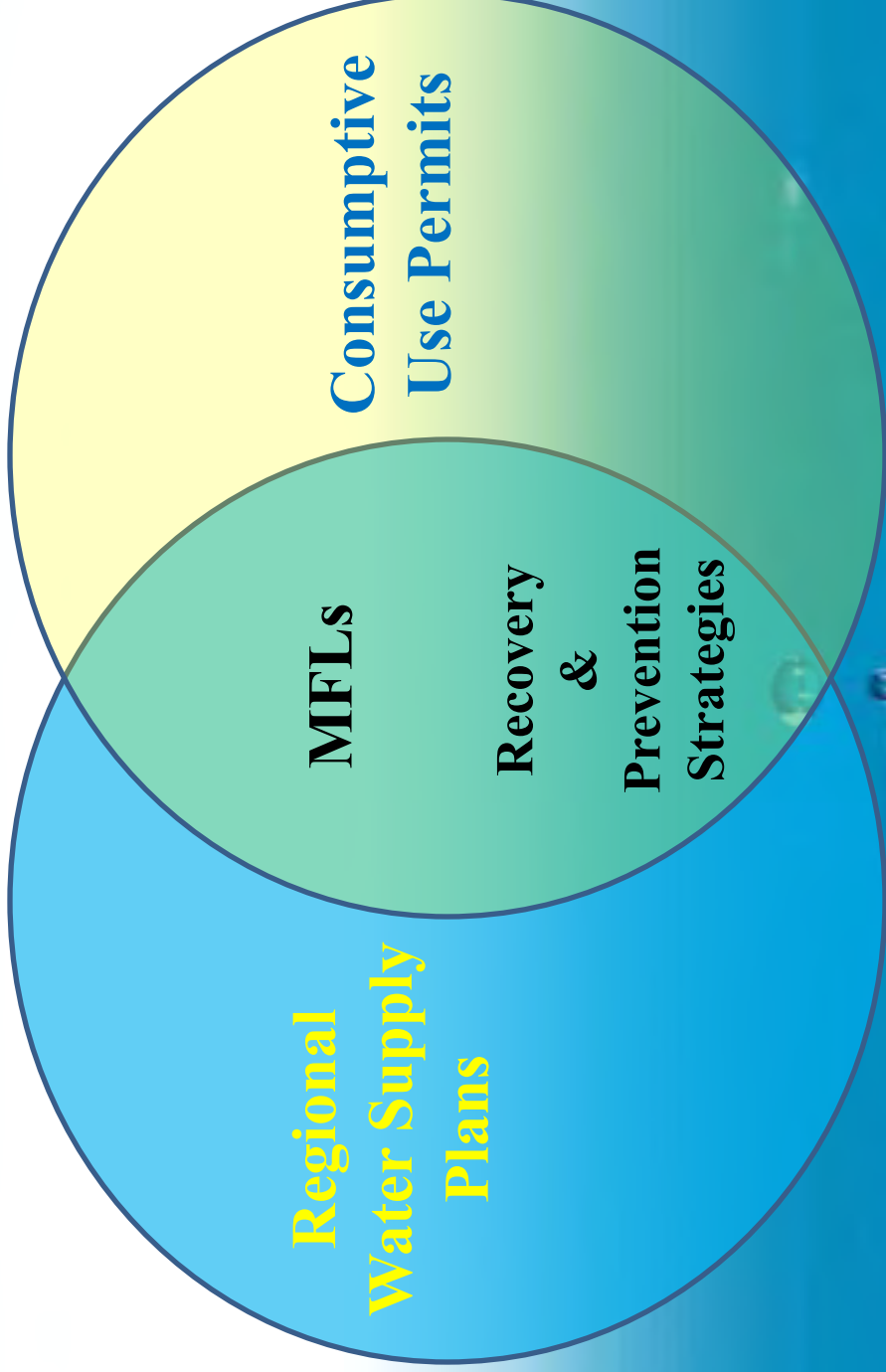
Water Resource Protection

- *Water Quantity*
Water Management Districts and Office of Water Policy, s.373.026, F.S.
- *Water Quality*
Division of Environmental Assessment & Restoration, s.403.067, F.S.
Division of Water Resources, Chapters 373 and 403, F.S.





Quantity: Water Supply Planning and Regulatory Framework





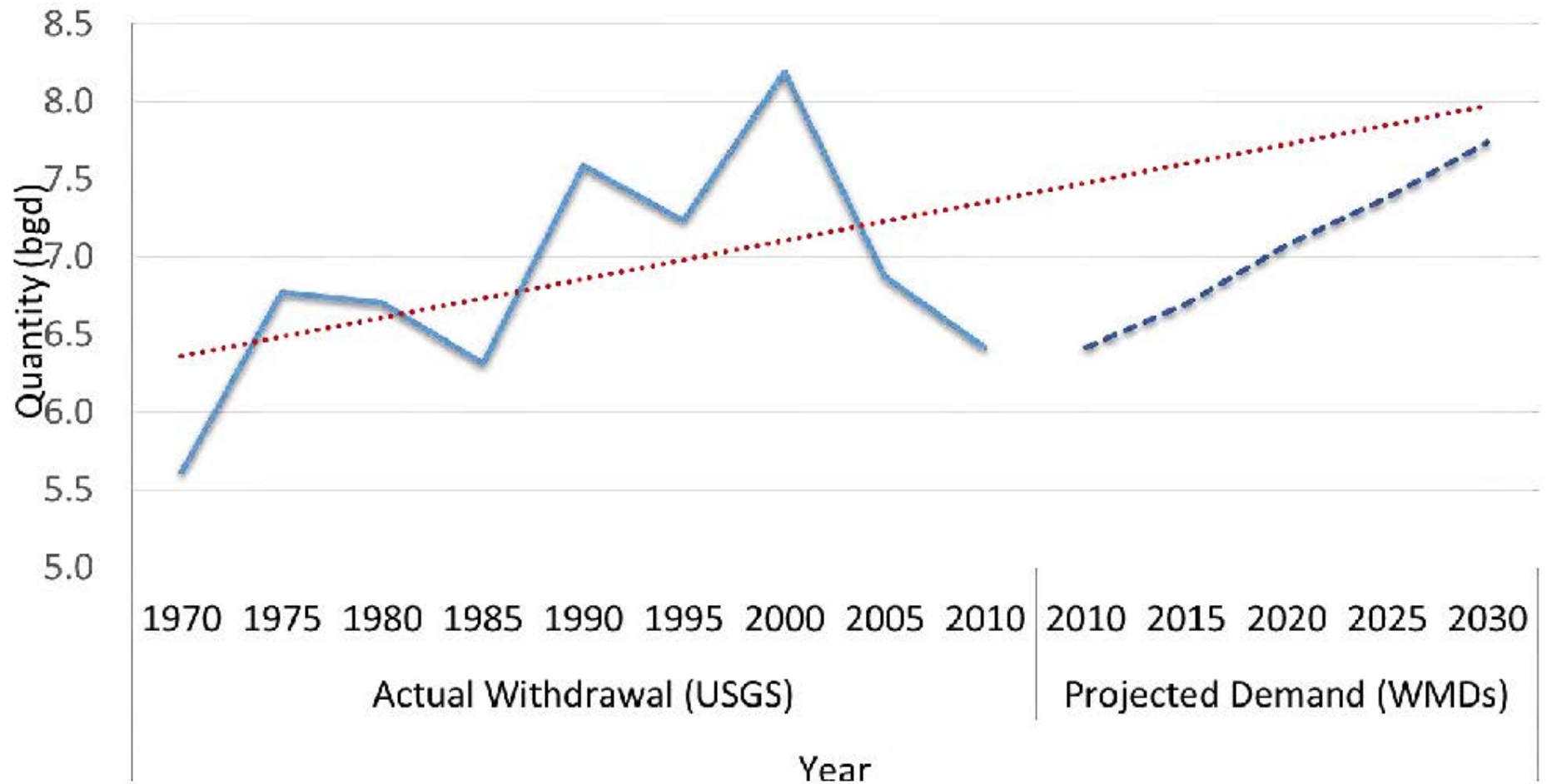
Water Management District Regional Water Supply Plans

20-year Projected Water Supply Needs

	Net Demand Change	Future Demand Not Met	Future Demand Not Met after Conservation	Potential Water from AWS Projects
Statewide Total	1418 mgd	611 mgd	322 - 376 mgd	2006 mgd
CFWI	300 mgd	250 mgd	208 mgd	405 mgd



Historical v. Projected Water Use





Minimum Flows and Levels

MFL



Recovery



• **Regulatory – Water Use**



• **Projects – Water Supply**

Prevention



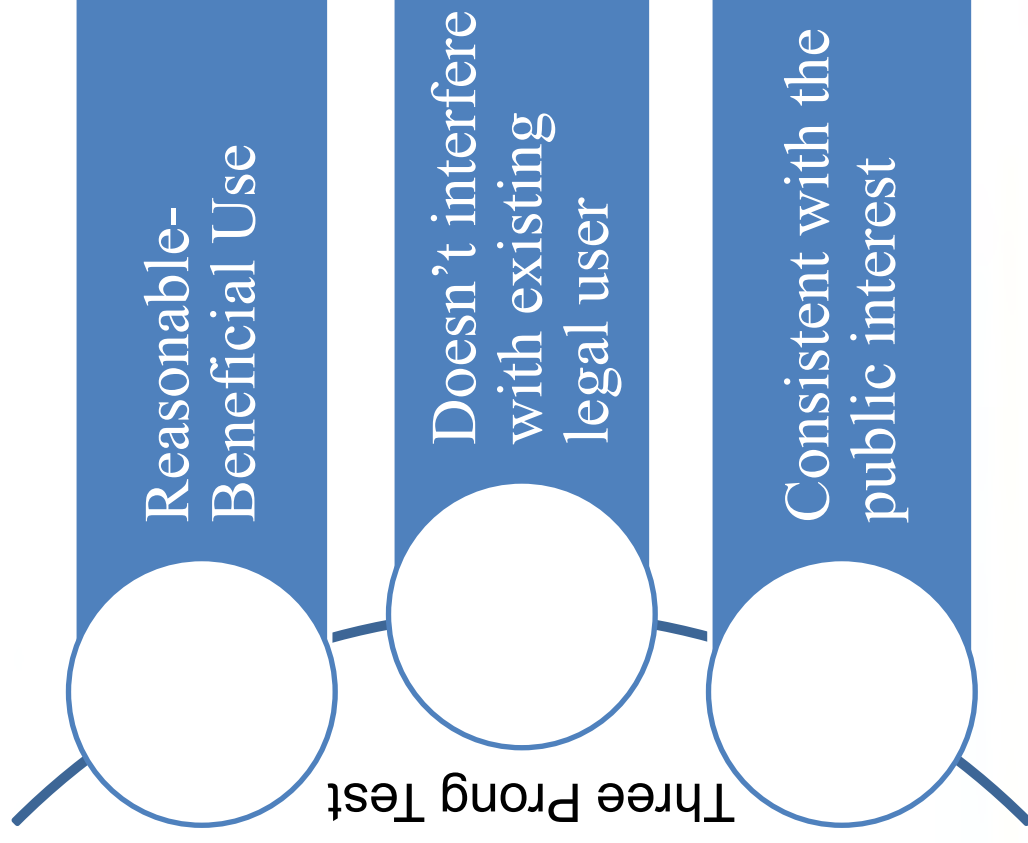
• **Water Conservation**

- 365 MFLs established for water bodies
- 97% of MFLs are being met or have approved Recovery or Prevention Strategies



Consumptive Use Permitting

- **CUPs Limit:**
 - Duration of use
 - Amount to be used
 - Type of use
- **Criteria for Issuance:**
 - Not harmful to resources
 - Meet the “Three Prong Test”

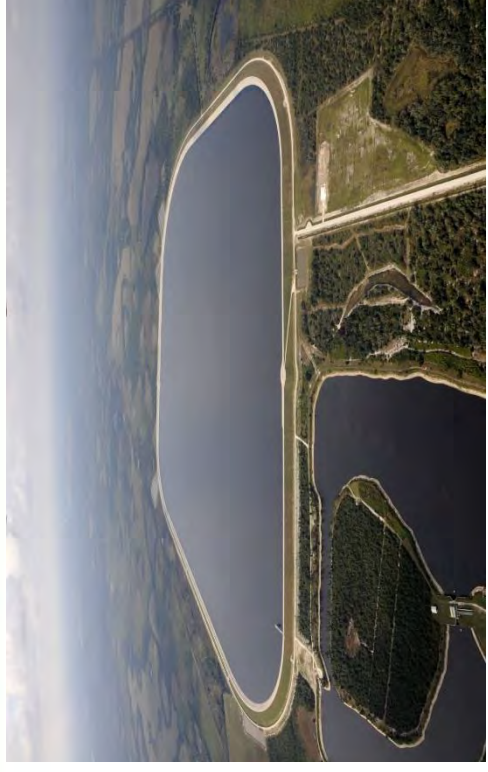




Conservation & Alternative Water Supply



Water Use Efficiency



Surface Water Storage



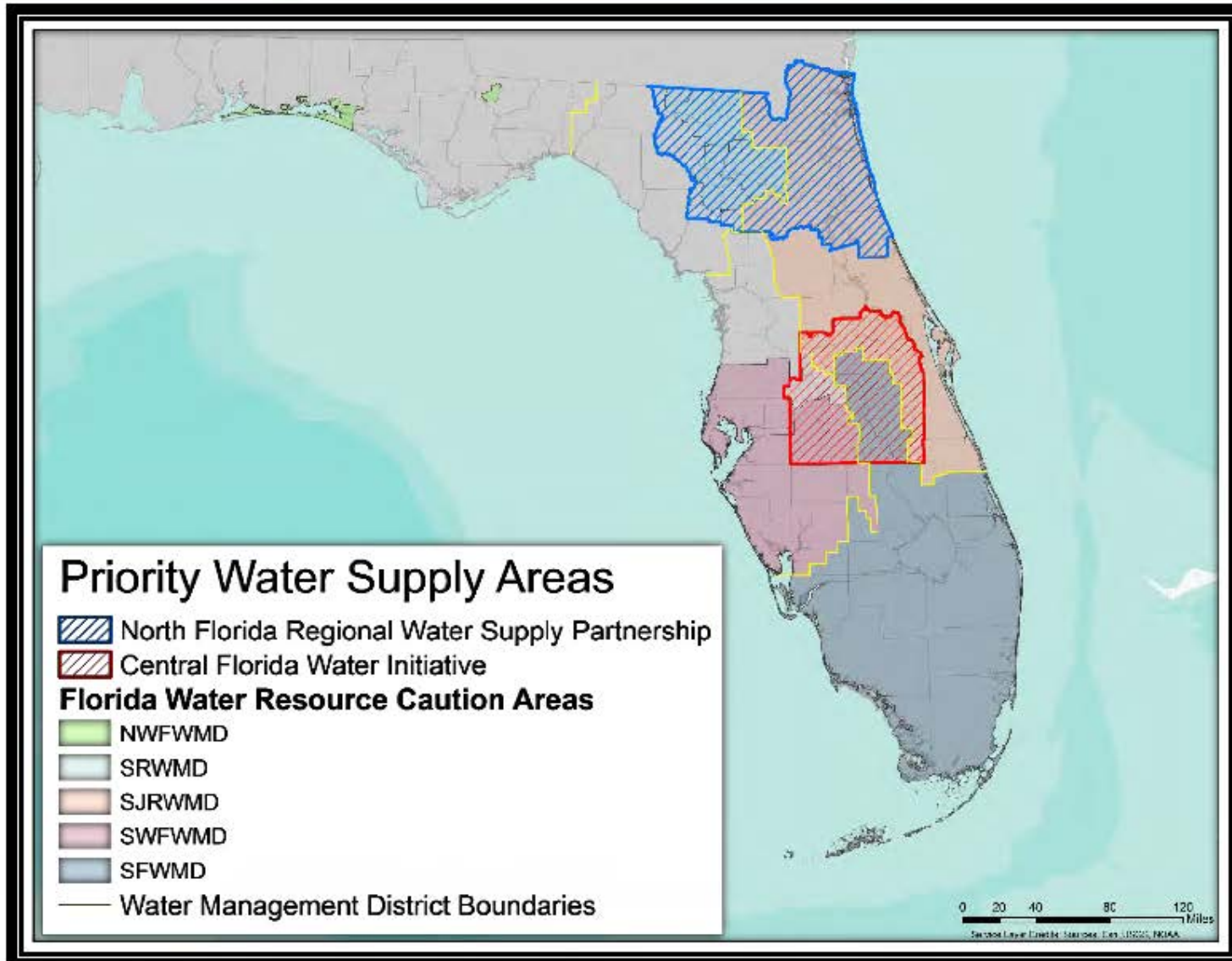
Reclaimed Water



Reverse Osmosis

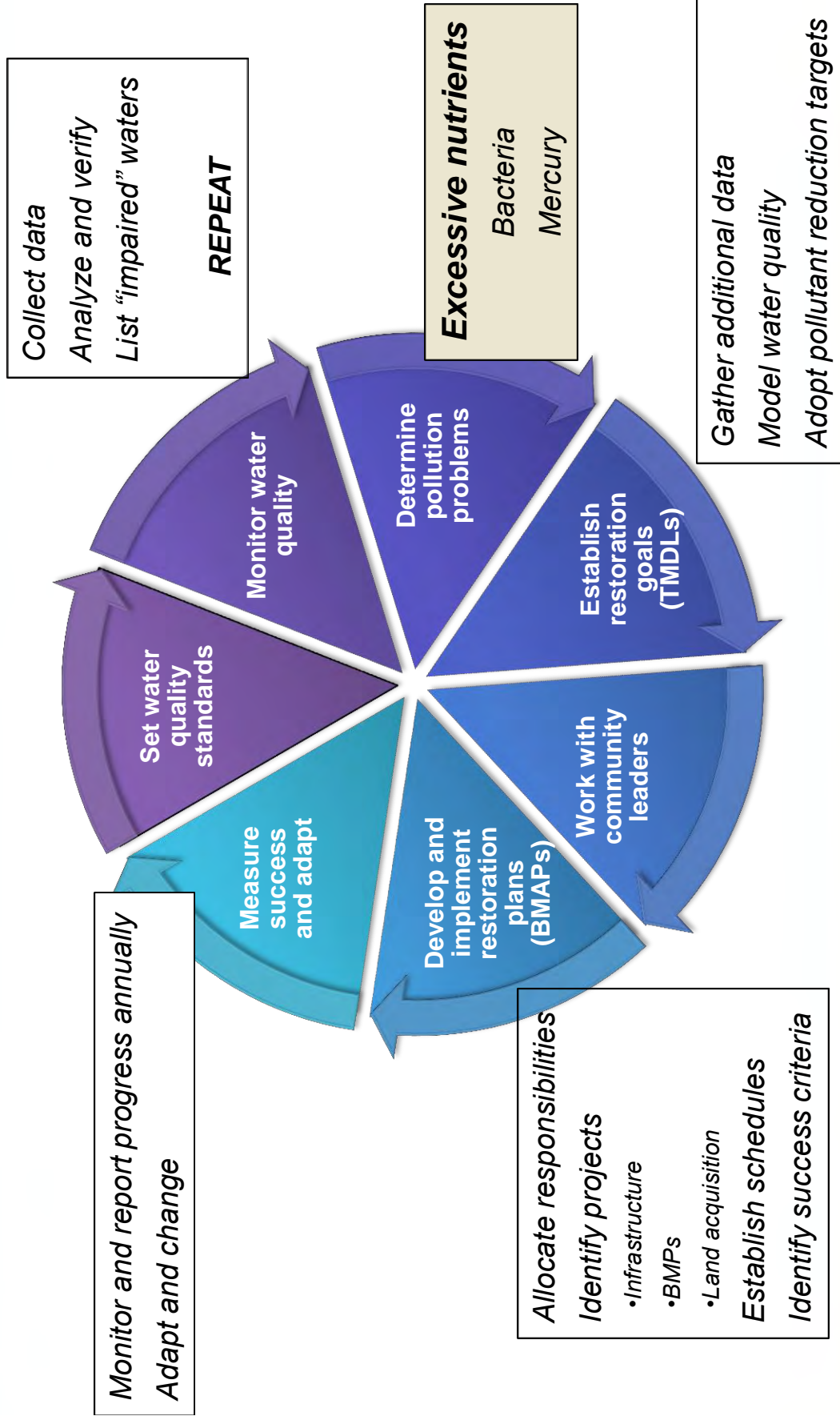


Water Supply Areas



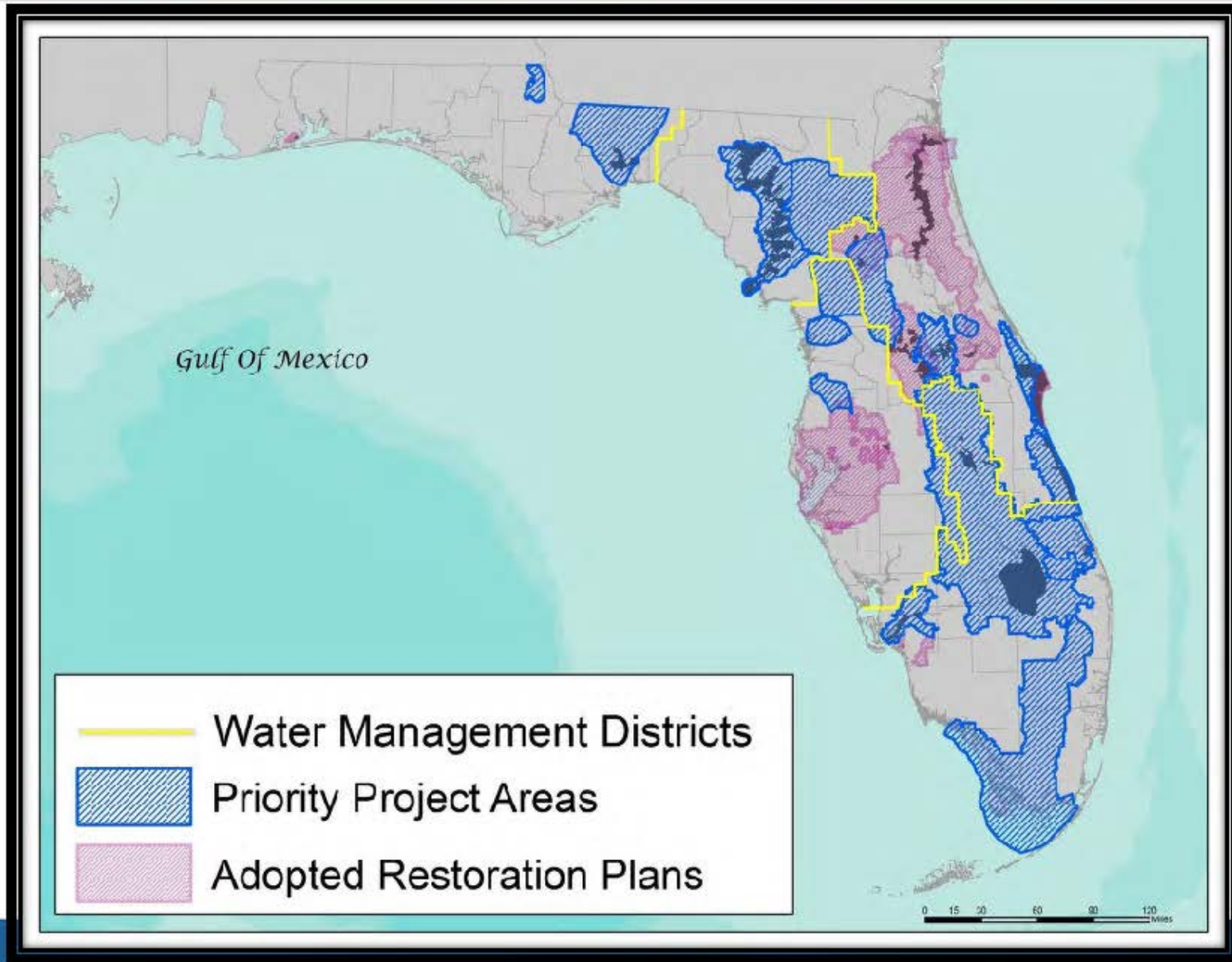


Water Quality Framework





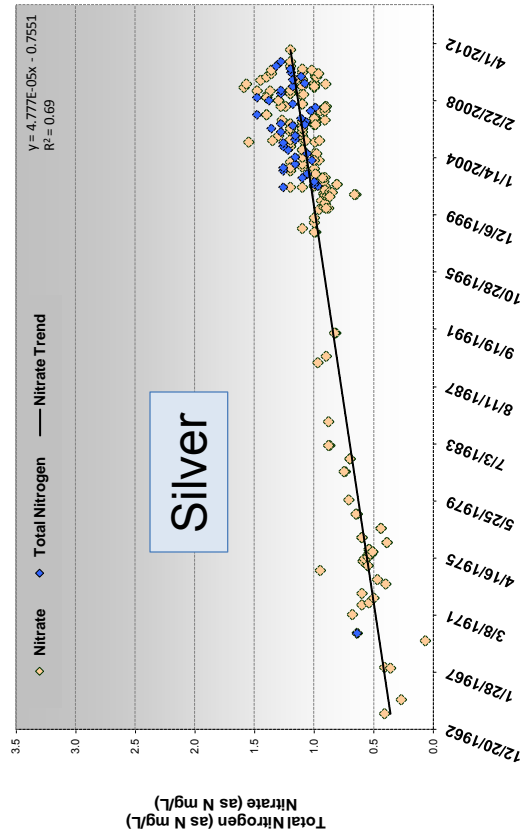
Priority Water Quality Areas



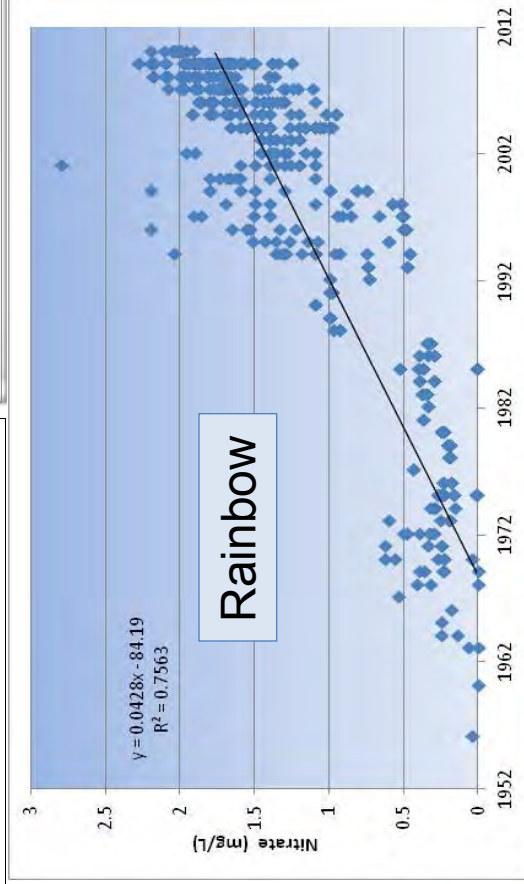
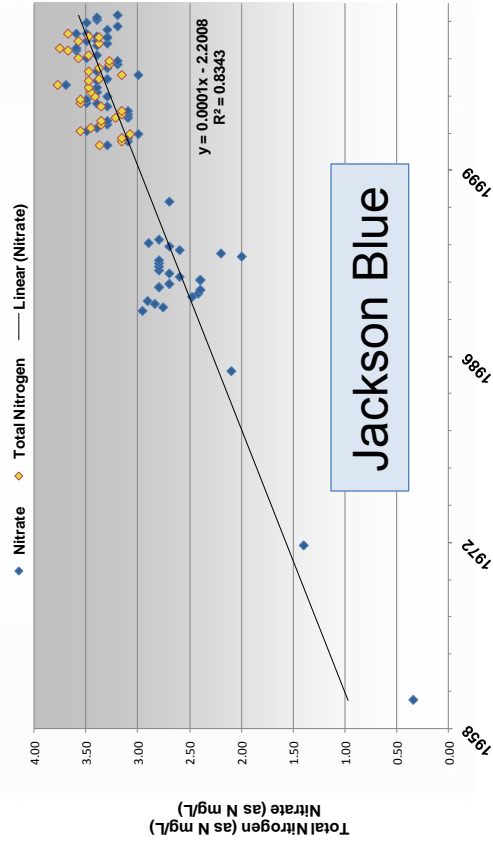


The Springs Challenge

NITRATE AND TOTAL NITROGEN TRENDS (1964-2011)
SILVER SPRING MAIN - WBID 2772A

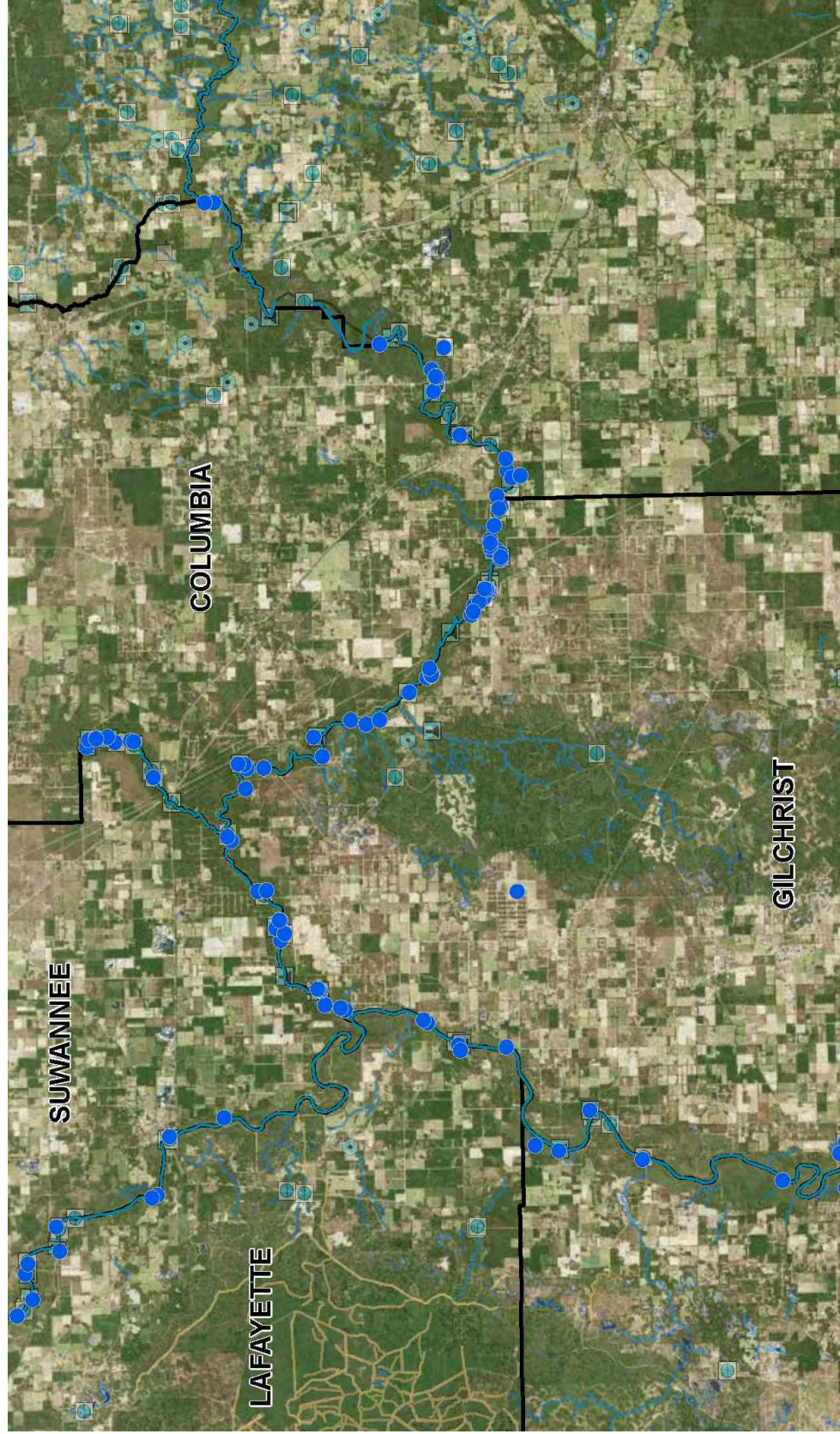


Nitrate and Total Nitrogen Trends (1960-2011)
Jackson Blue Spring - WBID 180Z



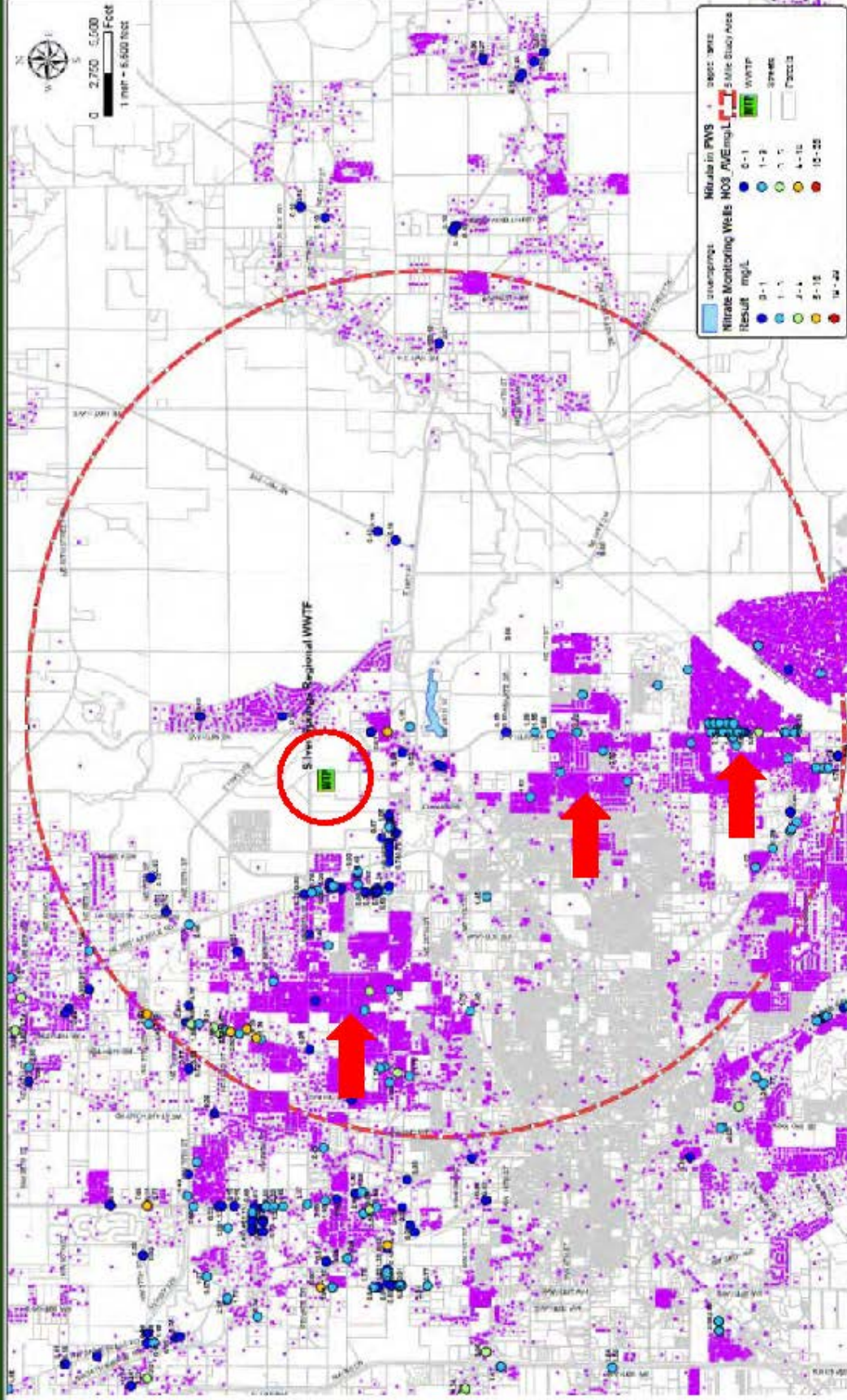


Santa Fe & Suwannee Rivers – Rural Setting





Silver Springs – Urban Setting



MARION COUNTY UTILITIES
Silver Springs Water Quality Improvement
Nitrate Content 5 miles from the Springs

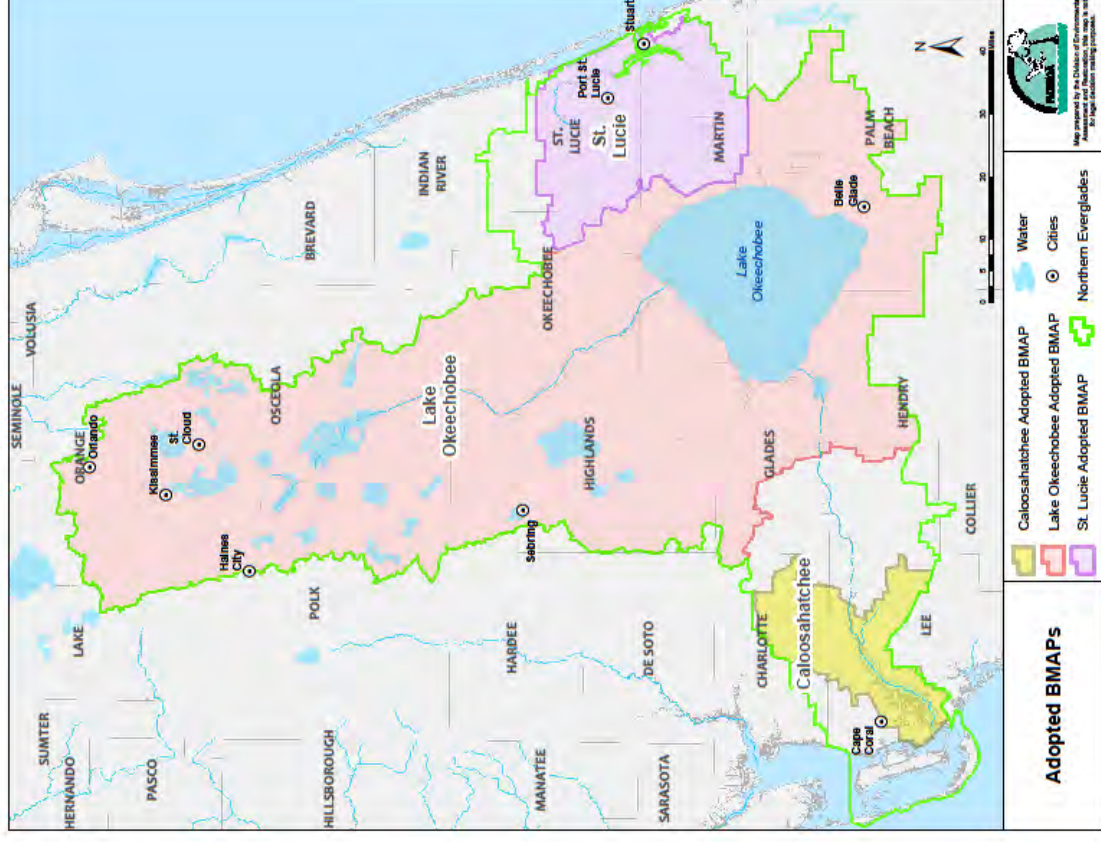


FIGURE 3-2



Northern Everglades Restoration Plans (BMAP's)

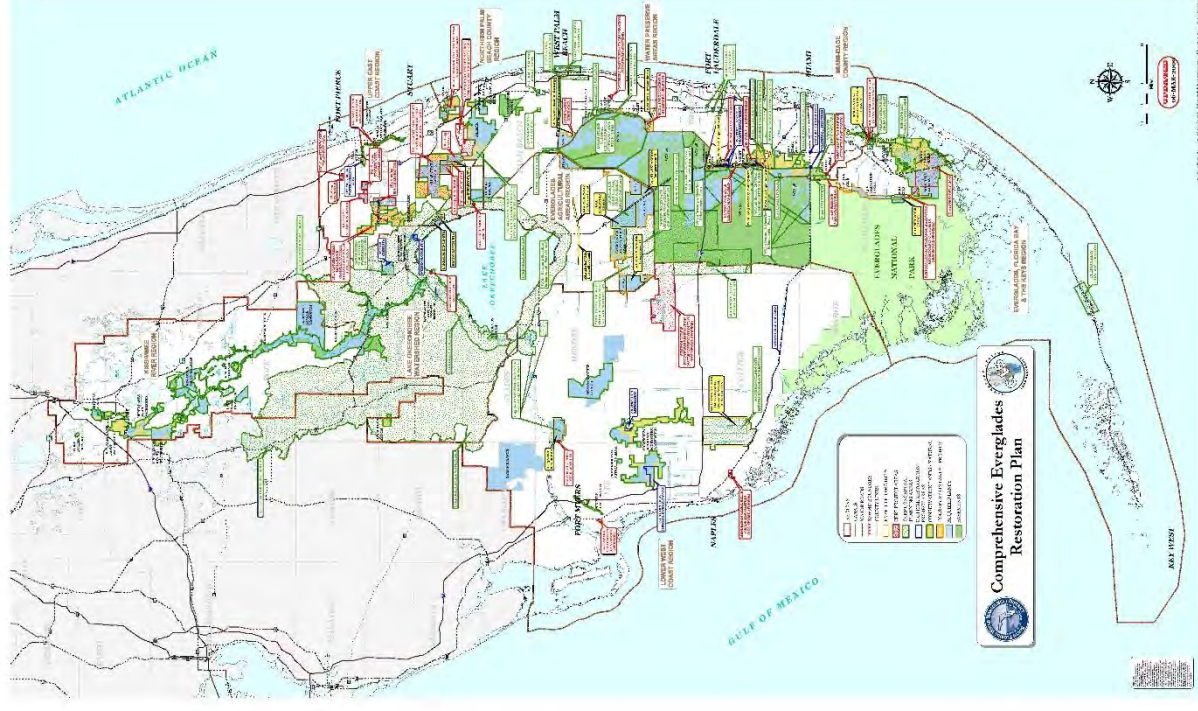
- Caloosahatchee Estuary (Nov 2012)
 - Total Nitrogen: ~38% of necessary reductions
- St. Lucie River & Estuary (May 2013)
 - Total Nitrogen: ~51% of necessary reductions
 - Total Phosphorus: ~37% of necessary reductions
- Lake Okeechobee (Dec 2014)
 - Total Phosphorus: ~43 % of necessary reductions





South Florida Ecosystem Restoration

- **Comprehensive Everglades Restoration Plan**
A state and federal plan that provides framework to restore and protect the South Florida Ecosystem
- **Everglades Restoration Strategies**
A state plan to implement key water treatment and storage projects to deliver clean water
- **Key Projects**
 - Kissimmee River Restoration
 - Caloosahatchee River Protection
 - St. Lucie Estuary Protection

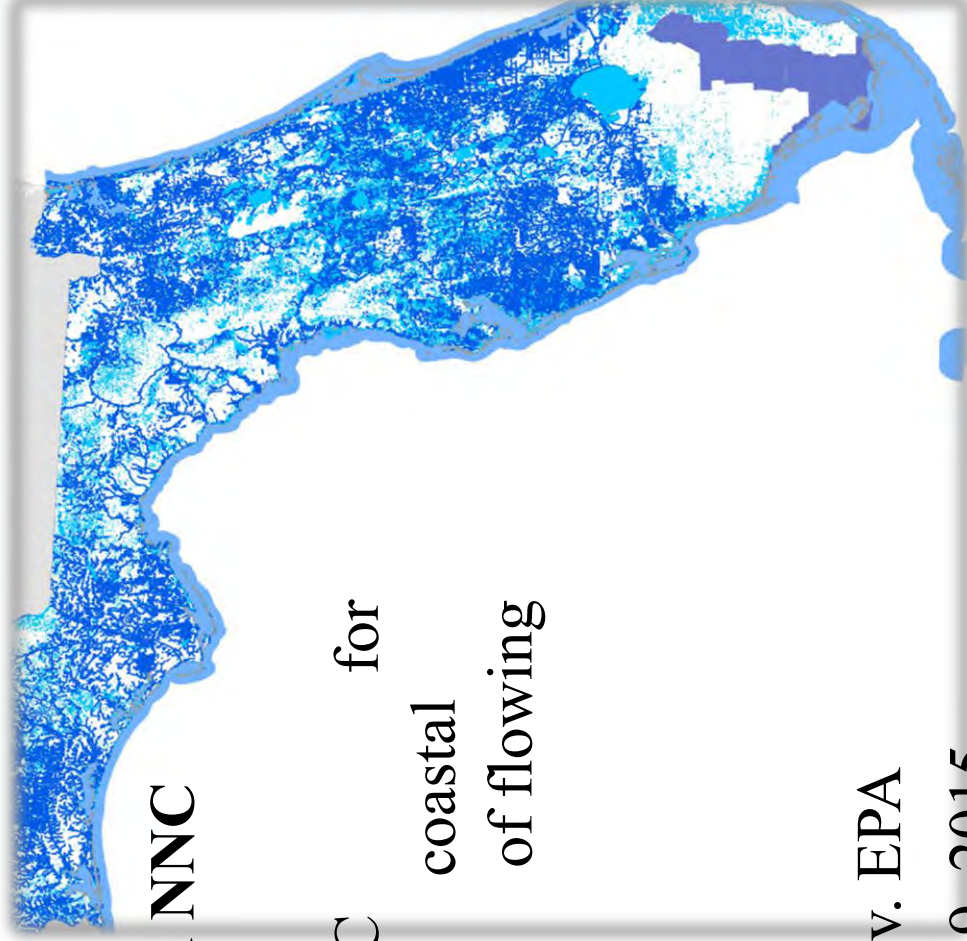




Numeric Nutrient Criteria in Florida

Comprehensive State – Adopted NNC

- ✓ Effective on October 27, 2014
- Florida has state-established NNC for all lakes, springs, estuaries and coastal waters, and the vast majority of flowing waters



NNC Appeal

- Florida Wildlife Federation v. EPA
- Oral argument set January 29, 2015



Contact



Drew Bartlett, Deputy Secretary
Water Policy & Ecosystem Restoration
Drew.Bartlett@dep.state.fl.us, 850.245.2030