



Agenda Item 29

Everglades Agricultural Area and C-139 Basins Source Control Program Annual Update

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Everglades Regulation
July 11, 2013 Governing Board Meeting

Water Quality Restoration Strategies

**Stormwater Projects
Sub-Regional and Regional**



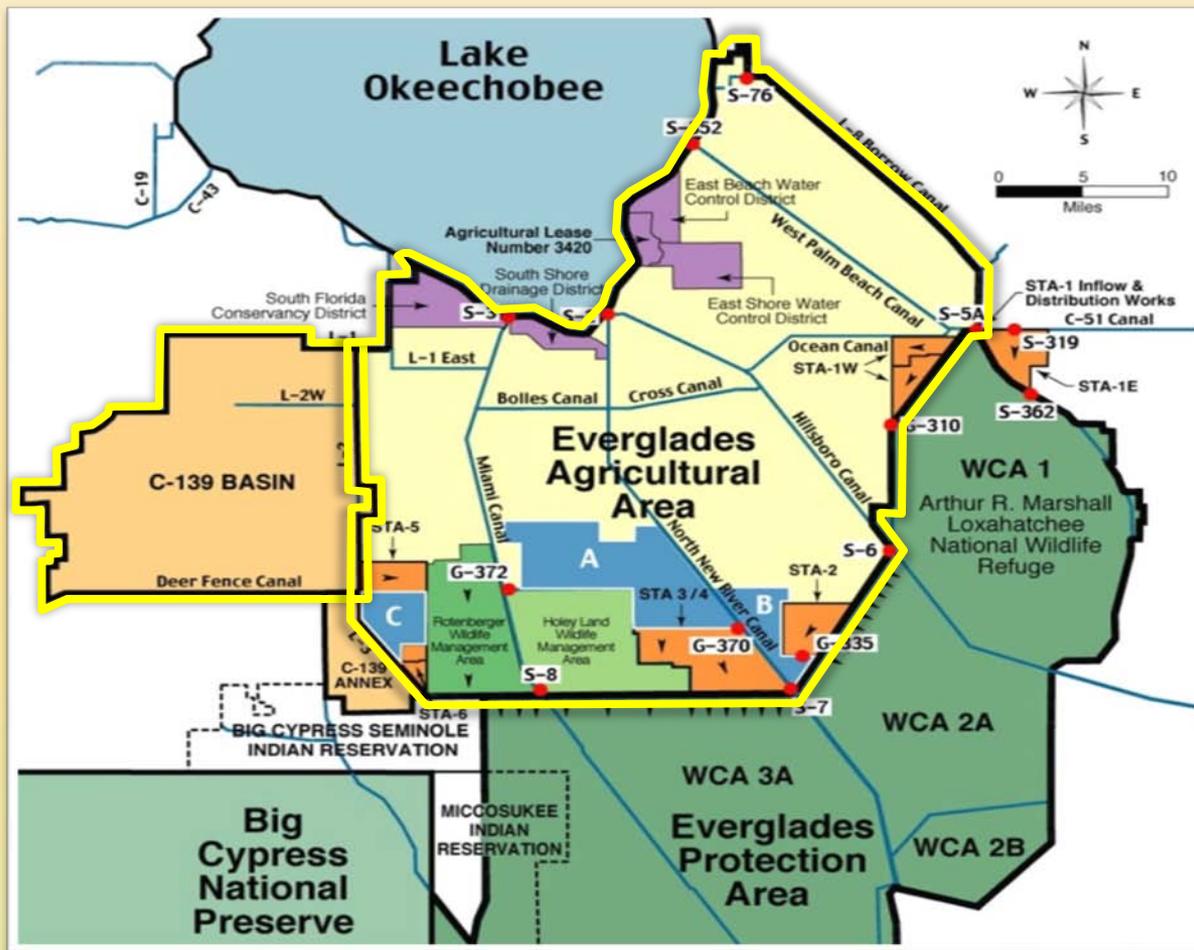
**Ecosystem
Restoration**



Source Controls



Everglades Agricultural Area (EAA) and C-139 Basins



Everglades Regulatory BMP Program



- Comprehensive Best Management Practice (BMP) Plans
- Fully implemented since:
 - 1996: EAA
 - 2011: C-139
- Field and records verification
- Research and demonstration projects
- Water quality monitoring
- Performance metrics:
 - EAA: 25% Total Phosphorus (TP) load reduction
 - C-139: Maintain historic TP load

Annual Total Phosphorus Load Evaluation

- Mathematical Model adopted by Rule
- Water Year 2013 (WY13)
- Phosphorus & flow data collected by SFWMD at points to and from each basin
- Current Year's Observed Load with BMPs
- Estimated load from a base period (no BMPs)

Current versus Base Period Comparison

- 10-year pre-BMP base period
- Data are adjusted for differences in rainfall timing and distribution
- Rainfall adjustment allows for “apples to apples” comparison
- Basin compliance is determined by comparing a current year’s actual TP load with the load estimated from the rainfall adjusted base period

2013 EAA Basin Phosphorus Results

EAA Basin In Compliance

Goal → **25% reduction**

Performance → **41%**



Average 55% TP Load Reduction

Base Period discharge **263 mtons**

WY13 discharge **154 mtons**

BMPs have prevented 2,673 mtons of TP from leaving the EAA

2013 C-139 Basin Phosphorus Results

C-139 Basin In Compliance

Goal → **Maintain Historic**

Performance → **Exceeded**

Base Period discharge **22 mtons**

WY13 discharge **10 mtons**



What's next?

- EAA and C-139 Basin Field Visits
- BMP Research and Demonstration Projects
- Performance Monitoring
- Sub-regional Projects in the EAA



Questions?

