

Florida Department of Environmental Protection



Division of Environmental
Assessment and Restoration

Prioritizing Waters in Florida

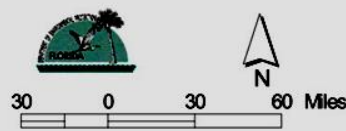
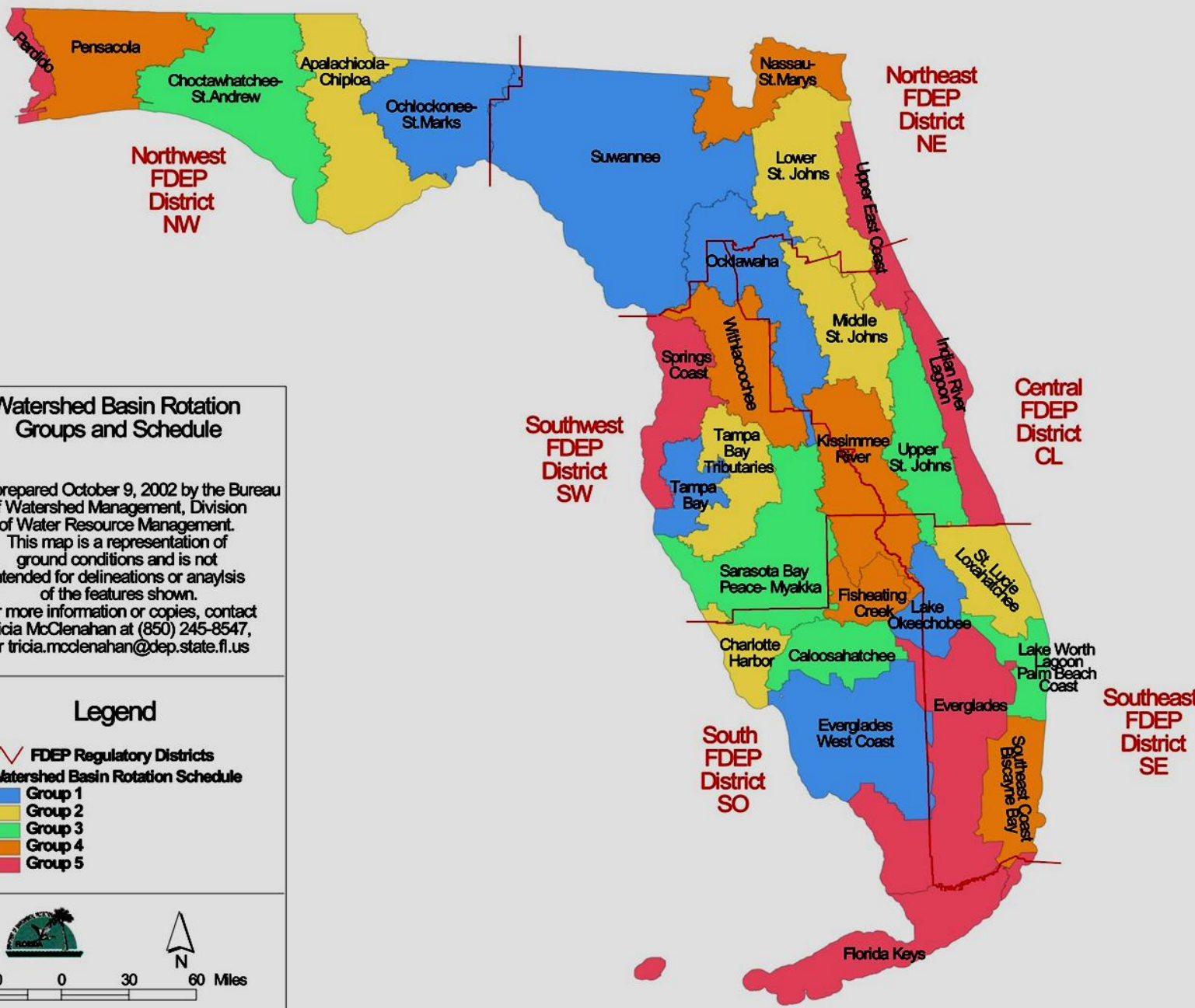
May 6, 2014





Watershed Management Approach

- **DEP implements TMDL Program as part of Watershed Management Approach**
 - Started in July, 2000
 - Assessment
 - TMDL Development
 - Implementation
 - Watershed Restoration
- **Watershed Approach established five-phase cycle that rotates through all basins in the state over five-year period**
 - Divided state's basins into groups





Uses Addressed by Assessment Methods

- **Aquatic Life**
 - Metals, Turbidity, Pesticides, Biological assessment
- **Primary Contact and Recreation**
 - Bacteria, Beach advisories
- **Fish and Shellfish Consumption**
 - Pathogenic bacteria, Mercury, Shellfish Classification
- **Drinking Water**
 - Metals, Pesticides, Bacteria

**Water Quality Standards 62-302 F.A.C.
Impaired Waters Rule 62-303 F.A.C**



Watershed Management Cycle

Phase 1 - Preliminary Assessment

- Produce Planning List

Phase 2 - Targeted Monitoring and Assessment

Phase 3 - Develop and adopt TMDLs

Phase 4 - Establish TMDL Implementation Strategy

- Basin Management Action Plan or
- Other Implementation Option

Phase 5 - TMDL Implementation

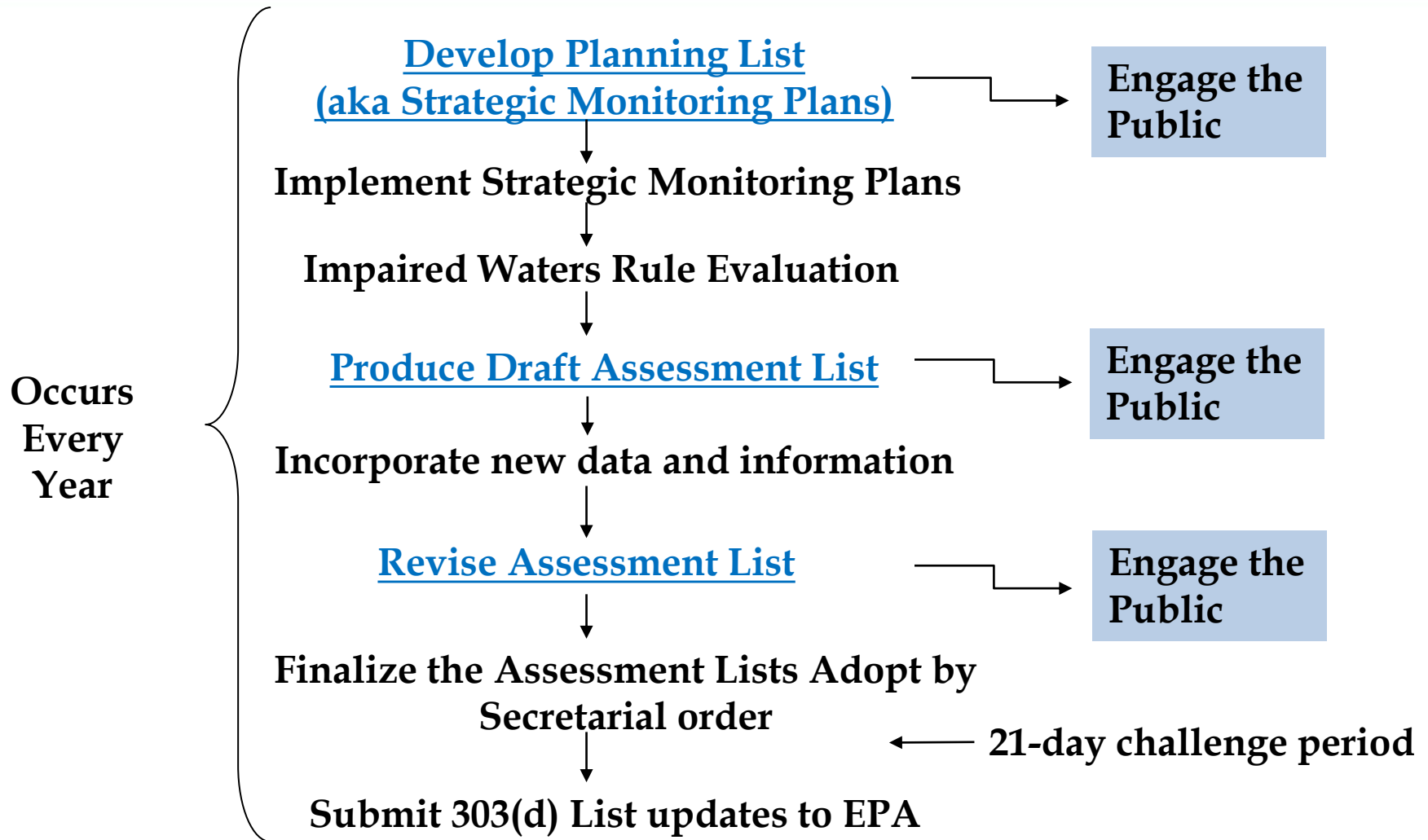


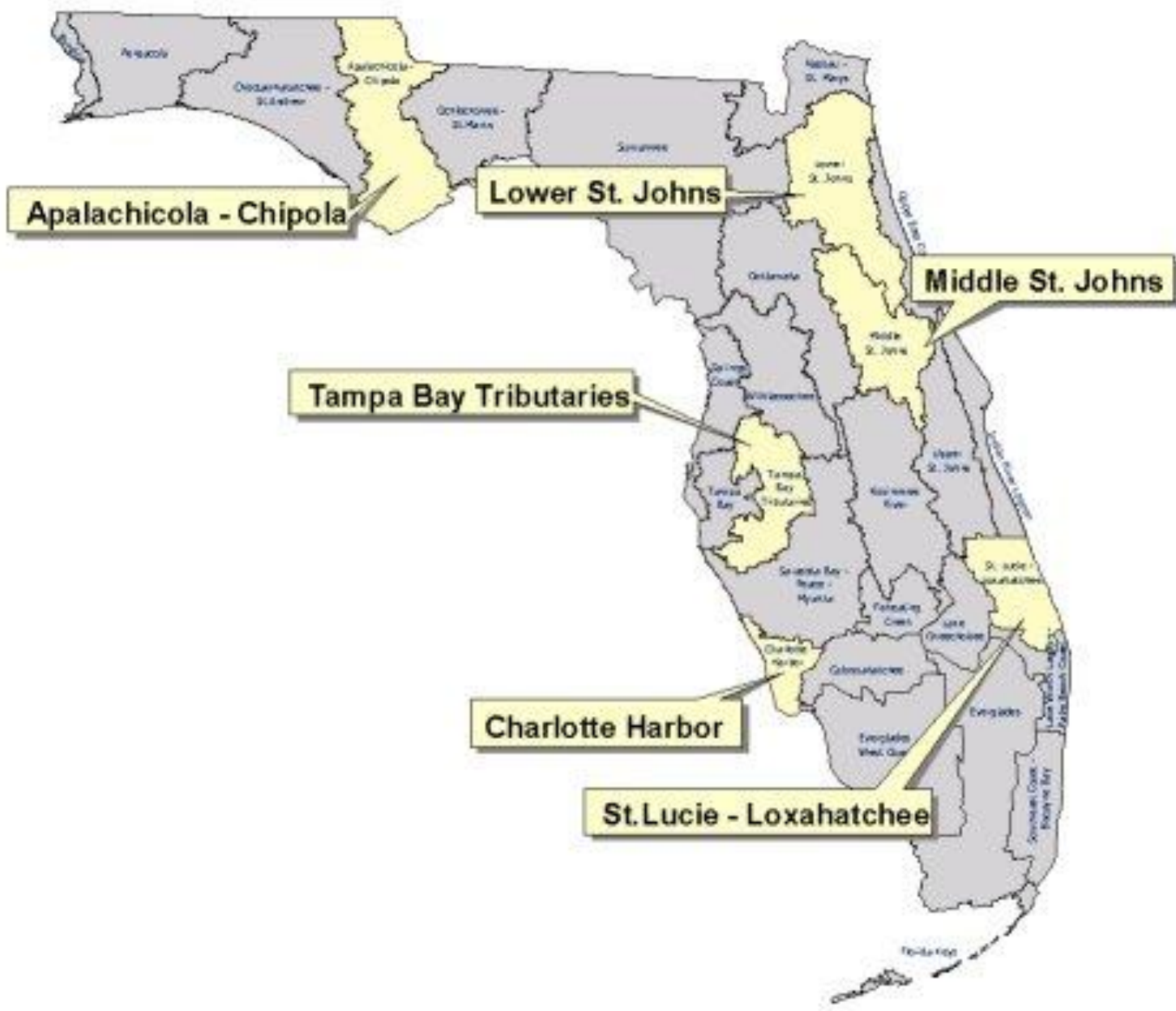
Monitoring and Assessment Prioritization

- **Planning List Assessment**
 - **Uses data from most recent 10 year period**
 - **Used to identify potentially impaired waters**
 - **Data meet assessment thresholds in 62-303 (Table 1)**
 - **Used to determine additional data needs**
 - Bioassessment data for nutrients
 - Causative pollutants for dissolved oxygen non-attainment
 - **Period of Record data indicate impairment**



FDEP Assessment Process







Phased Approach

Phase 1

- Remove Bacteria and Mercury WBIDs

Phase 2

- Numeric Indicators

Phase 3

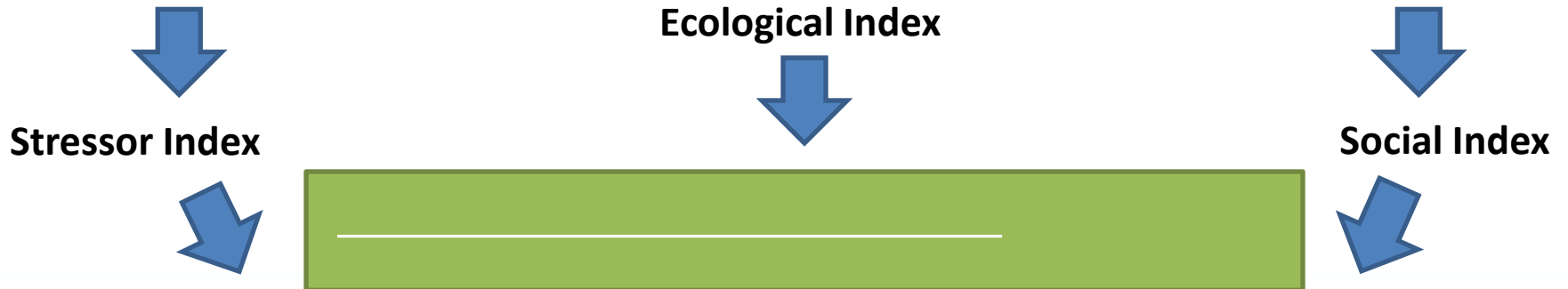
- Non-Numeric Indicators

List of Waters to Develop TMDLs



Indicators Overview

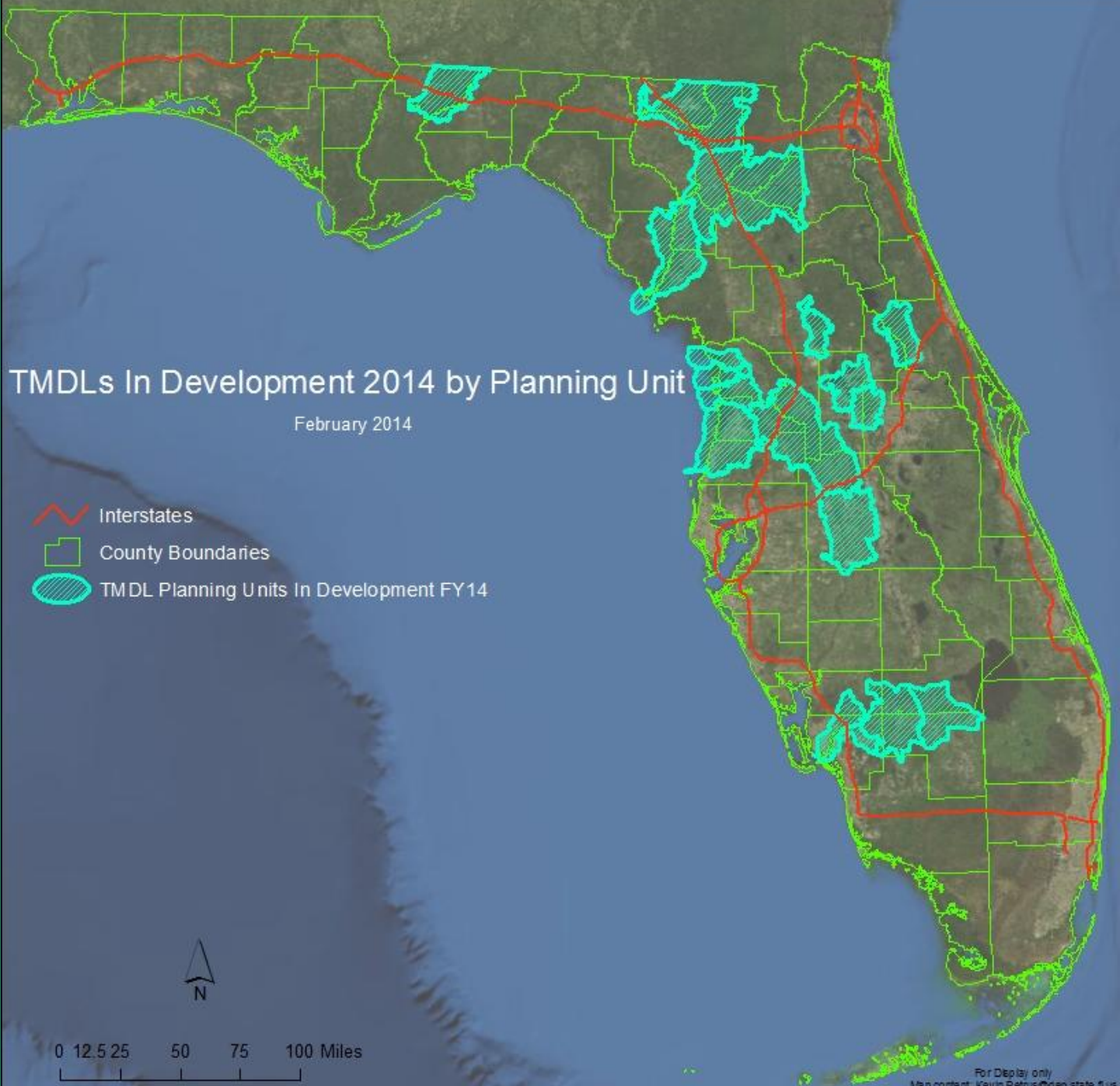
Stressor	Ecological	Social
Severity of impairment	Presence of Outstanding Florida Water (OFW)	Listing priority/age of the listing
Proximity to other impaired waterbodies	EPA/UF Watershed Index	
Number of point source outfalls		(BMAP effectiveness)
Effluent dominated waterbody		(Presence of EPA TMDL)
Number of verified listings		(Economic importance)
Number of impairment/waterbody combinations		(Likelihood of reasonable assurance plan or other approach)
Designated use		(Public access)



TMDLs In Development 2014 by Planning Unit

February 2014

-  Interstates
-  County Boundaries
-  TMDL Planning Units In Development FY14



0 12.5 25 50 75 100 Miles

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TMDL Work Plan 2014-2016 by Planning Unit

February 2014

-  Interstates
-  County Boundaries
-  TMDL Planning Units Work Plan FY14-16

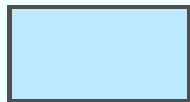


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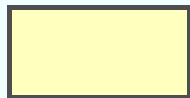


Basin Groups



Group 1

- Ochlocknee-St. Marks
- Suwannee
- Ocklawaha
- Lake Okeechobee
- Tampa Bay
- Everglades West Coast



Group 2

- Apalachicola-Chipola
- Lower St. Johns
- Middle St. Johns
- Tampa Bay Tributaries
- Charlotte Harbor
- St. Lucie-Loxahatchee

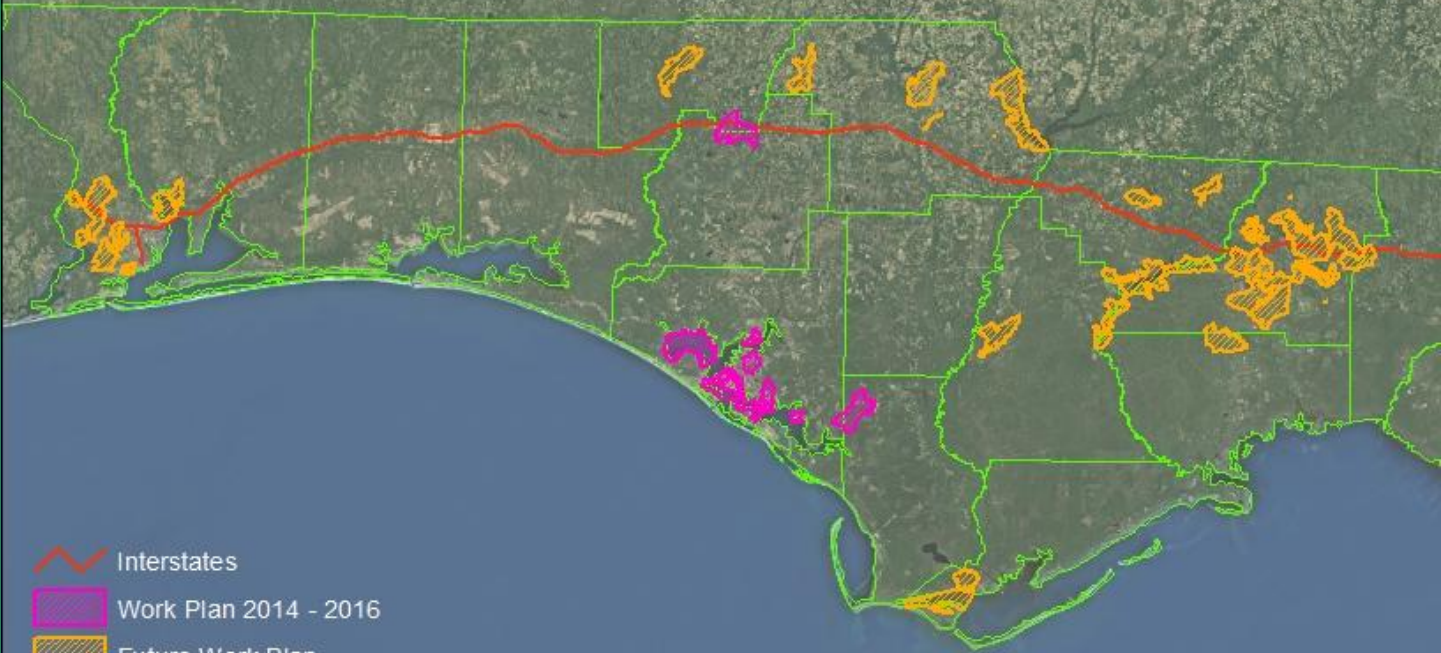
2014-2016 TMDL Development Work Plan for Northwest Florida




Apalachicola - Chipola, Choctawhatchee - St. Andrew, Ochlockonee - St. Marks, Pensacola, and Perdido Basins

WBID	Name	Basin Group	Basin Name	Waterbody Type
1141A	Parker Creek	3	Choctawhatchee - St. Andrew	Stream
286	Open Creek	3	Choctawhatchee - St. Andrew	Stream
1060	Direct Runoff to Bay	3	Choctawhatchee - St. Andrew	Stream
1184	Direct Runoff to Bay	3	Choctawhatchee - St. Andrew	Stream
1155	Little Sandy Creek	3	Choctawhatchee - St. Andrew	Stream
1088	Beatty Bayou (EPA TMDL)	3	Choctawhatchee - St. Andrew	Estuary
1123	Robinson Bayou (EPA TMDL)	3	Choctawhatchee - St. Andrew	Estuary
1128	Pretty Bayou (EPA TMDL)	3	Choctawhatchee - St. Andrew	Estuary
1131	Panama City Stormwater (EPA TMDL)	3	Choctawhatchee - St. Andrew	Estuary
1144	Massalina Bayou (EPA TMDL)	3	Choctawhatchee - St. Andrew	Estuary
1172	Pitts Bay (EPA TMDL)	3	Choctawhatchee - St. Andrew	Estuary
1061A	Panama City Beach WWTF (EPA TMDL NPDES limit)	3	Choctawhatchee - St. Andrew	Estuary
1061C	St. Andrews WWTF (EPA TMDL NPDES limit)	3	Choctawhatchee - St. Andrew	Estuary
1061D	Military Point Regional WWTF (EPA TMDL NPDES limit)	3	Choctawhatchee - St. Andrew	Estuary
1061D	Lynn Haven WWTF (EPA TMDL NPDES limit)	3	Choctawhatchee - St. Andrew	Estuary
1061D	Millville WWTF (EPA TMDL NPDES limit)	3	Choctawhatchee - St. Andrew	Estuary
1061D	Bay County WWTF (EPA TMDL NPDES limit)	3	Choctawhatchee - St. Andrew	Estuary
1141B	Parker Bayou (EPA TMDL)	3	Choctawhatchee - St. Andrew	Estuary

WBIDs in the TMDL Work Plan

February 2014



-  Interstates
-  Work Plan 2014 - 2016
-  Future Work Plan
-  County Boundaries



0 5 10 20 30 40 Miles

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