DEMONSTRATING WATER QUALITY RESTORATION USING A WATERSHED APPROACH

> Veronica Fasselt NC Watershed Coordinator USEPA Region 4 (SE)



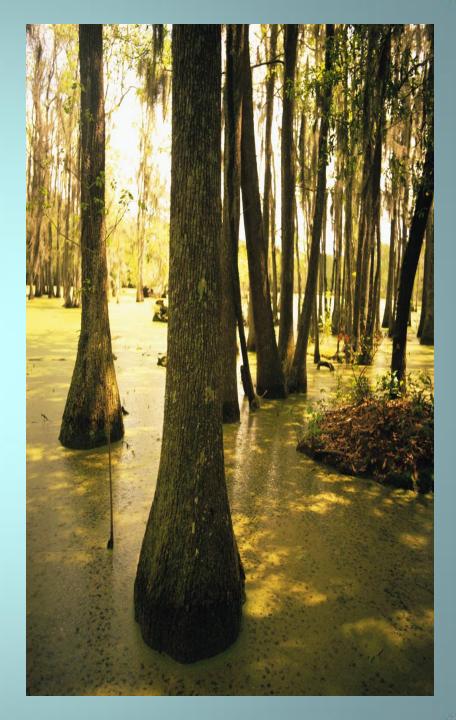
**GOAL: Show How** the Performance Measure - SP12 -**Can Be Applied to** Document Watershed-Scale **Restoration in the National Estuary** Program

# SP-12 BENEFITS

Documents Environmental Outcome Justifies Watershed Approach > Requires Minimal Reporting Uses an Existing Measure Can be Applied Flexibly Clearly Communicates Success to all Levels (Local, Regional, HQ, **Congress**)

Government Performance & Reporting Act of 1993 (GPRA)

Requires that Federal Agencies:
Set Goals
Define Targets
Report Performance



#### EPA STRATEGIC PLAN GOAL 2: CLEAN & SAFE WATER

- Objective 2.2: Protect Water Quality
- Sub-objective 2.2.1: Improve Water Quality Watershed-wide
- Measures:
  - > SP-10 Full Attainment of Standards for All Impairments
  - > SP-11 Partial Attainment of Standards for Impairments
  - > SP-12 Watershed-scale Water Quality Improvement

# DEFINITIONS



- Standards = Water
  Quality Standards
- Impaired Waters = 303(d) Listed Waters (May Have a TMDL)
- Baseline for Improvements = 2002 Listing Cycle
- Watershed = HUC12 or Equivalent

#### WATERSHED APPROACH

Hydrologically Defined Area Involves Key Stakeholders Iterative Planning or Adaptive Management to Address Priority Water **Resource Goals** Integrated Restoration Tools & **Programs (Voluntary &/or Regulatory)** Environmental Outcome Objectives Monitoring/Assessment to ID Improvements/Needed Adjustments > www.epa.gov/type/watersheds

#### SP-12: Improve Water Quality on a Watershed Basis



Option 1: Remove 1 or more of the causes of impairment for at least 40% of the impaired water bodies.

Option 2: Demonstrate significant watershed-wide improvement.

## Option 2: Watershed-wide Improvement

- Use Water Quality Monitoring
   Data to Demonstrate
   Improvement Through:
  - a) <u>Statistical Procedures</u> (90% Confidence)
  - b) <u>Multiple Lines of Evidence</u> (Cumulative Weight)
- Standards May Not be Met Yet



#### Option 2b: Evidence for Watershed-wide Improvement

Improving Trend in Water Quality (Physical or Chemical) Based on Empirical Data (Which May or May Not be Statistically Significant) +
 Improving Trend in:

Related Biological Indicator/Index or

> Water Quality Based on Predictive/Modeled Data with Ground Truthing *or* 

 > Widespread Significant Load Reductions +
 > Widespread Implementation Actions (Point/Nonpoint Source or Watershed) +
 > No Significant Deteriorating Trends (Data Required)

#### **SP-12 Reporting Process**

> Use Templates from SP-12 Guidance
 > EPA Reviews/Accepts or Comments
 > EPA Posts Electronically

 • EPA Portal (<u>http://portal.epa.gov</u>) Watershed Managers Forum in the Environmental Science Connector
 • EPA R4 Watersheds Website
 (www.epa.gov/region4/water/watersheds/watershed\_summaries)
 • Other Publications

 > Add Monitoring Data to STORET

# **Template Reporting**

- Watershed(s) ID
  - # of Watersheds Improved
  - Project Title
  - Organization
  - Contact
- <u>Watershed Approach</u>
  - Geographic Area
  - Key Stakeholders & Roles
  - Watershed Plan
  - Restoration Work

- 2002 Baseline Condition
  - HUC-12 Code
  - 2002 Impairments
  - Мар
- <u>Evidence of Impairment Removal or</u> <u>Watershed-wide Improvement</u>
  - Impairments Removed
  - Statistical Results
  - Environmental Significance
  - Improving &/or Supporting Trends
  - Evidence of Implementation
  - Documentation of No Deteriorating Trends
  - Photos/Graphics

# SENEPS REPORTING SP-12

the property line

Charlotte Harbor
 Indian River Lagoon
 Sarasota
 Tampa Bay

# **More Information**

#### http//www.epa.gov/ow/waterplan





#### QUESTIONS ???

Veronica Fasselt (404) 562–9471 Fasselt.veronica @epa.gov