



Northern Everglades
River Watershed Research & Water
Quality Monitoring Program
Caloosahatchee River Watershed



February 2007



UPDATE

- **Research and Monitoring Plan**
 - **Content:**
 - Plans for Monitoring at the Project Level will be included in the River Watershed Construction Plan
 - Chapter 5 has been eliminated
 - Chapter 4 is now entitled “Watershed and Estuarine Monitoring Programs”



Chapter 4: Watershed and Estuarine Monitoring Programs

- **What is Monitoring?**
 - Monitoring is (1) the systematic collection of data that (2) measures change or progress towards (3) a goal, be it a level of project performance or a target and can be used to (4) determine when modifications to the project are required.



Chapter 4: Watershed and Estuarine Monitoring Programs

- **Developing a Monitoring Plan**
 - **Important first step is to identify the goals of the project and identify the type of information that is required to measure progress towards those goals.**



Chapter 4: Watershed and Estuarine Monitoring Programs

- **Goals of the River Watershed Protection Plans (Senate Bill 253)**
 - 1) Pollutant load reductions based on the TMDL**
 - 2) Salinity envelopes and freshwater inflow targets based on existing information**
 - 3) Reduce frequency and duration of undesirable salinity ranges**
 - 4) Annual conditions report: hydrology, water quality, and aquatic habitat**



Chapter 4: Watershed and Estuarine Monitoring Programs

- **Monitoring Program**
 - Loads for pollutants requiring TMDL (concentration x flow)
 - TMDL pollutant concentrations in estuarine receiving waters
 - Parameters upon which TMDL is based (e.g. nutrient TMDL based on Chl *a*)
 - Salinity
 - Aquatic Habitat: Oysters, SAV



Chapter 4: Watershed and Estuarine Monitoring Programs

- **Plan Formulation**
 - 1) Inventory Existing Monitoring (Ch 4)**
 - 2) Assessment (Is it adequate to meet goals?) (Ch 4)**
 - 3) Recommendations (CH 6)**