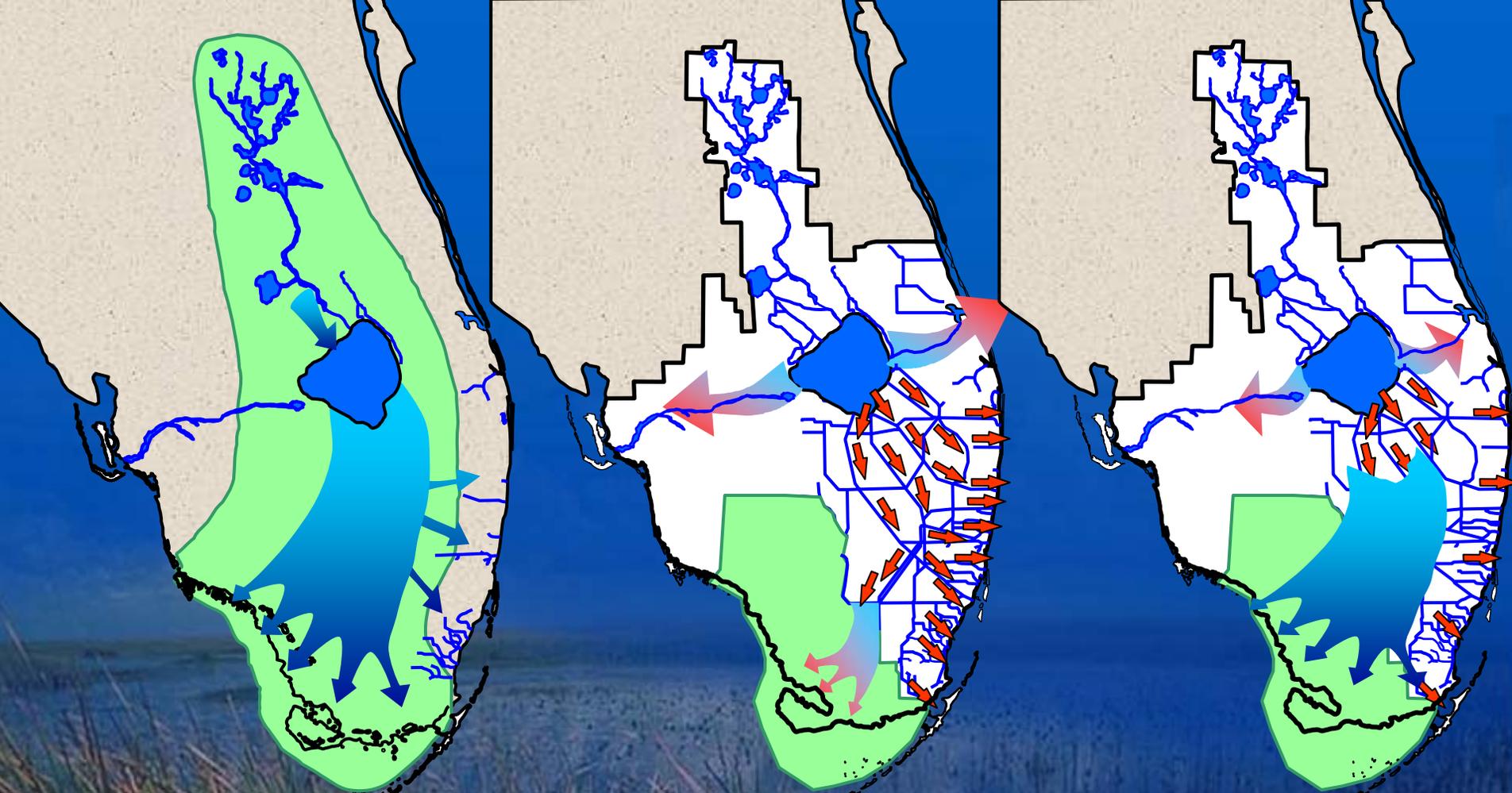


Restoration of the Everglades

WCA-3A

**Decomartmentalization
and Sheetflow
Enhancement**



**Historic
Flow**

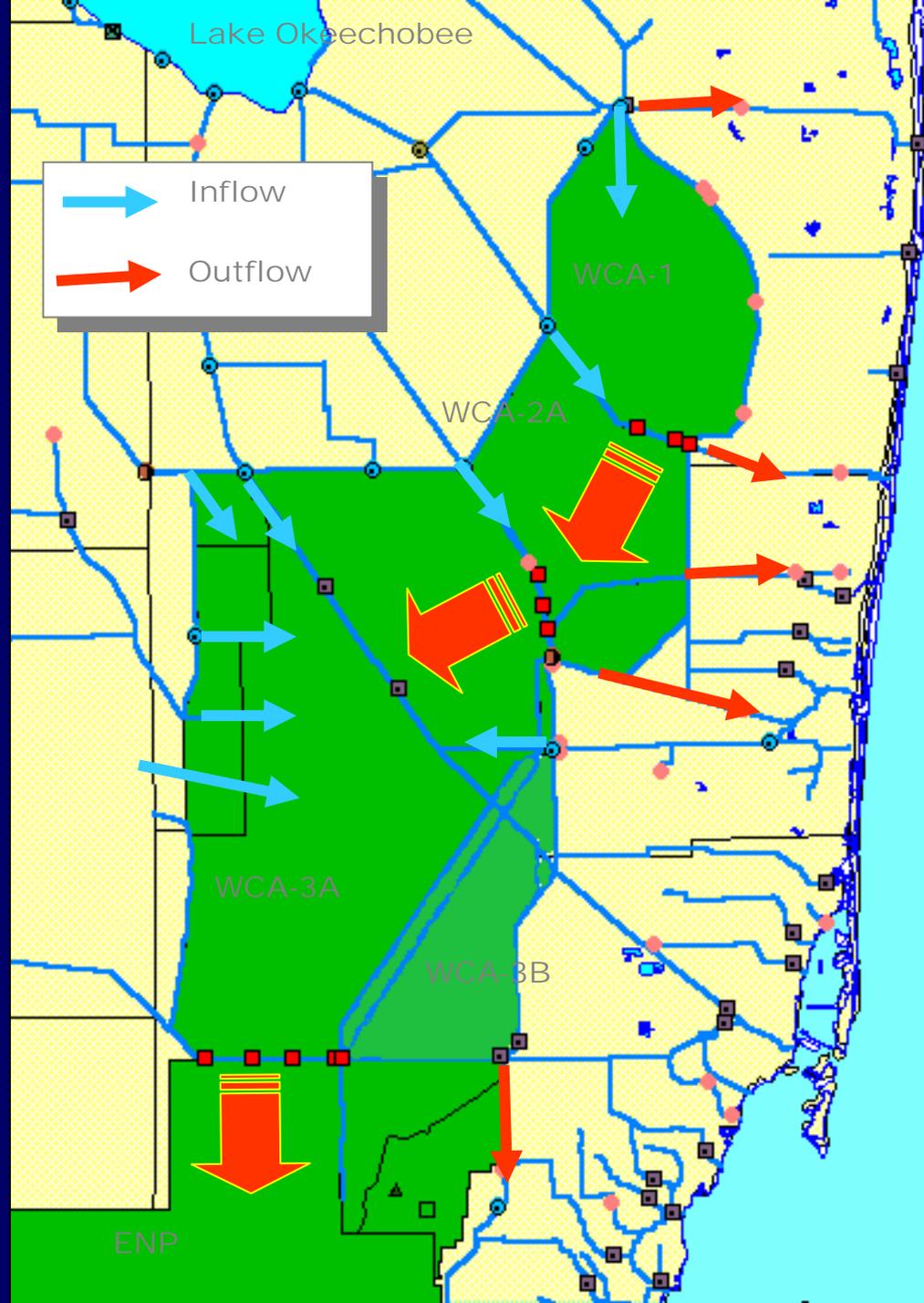
**Current
Flow**

**Future
Flow**

Everglades Restoration Goal

Current Flow Patterns through Everglades

- Major structures within the WCAs discharge south toward Everglades National Park
- Smaller structures discharge east, primarily for water supply purposes
- Flows largely confined to Western Shark Slough
- Little capacity to move water into Northeastern Shark Slough



Modified Water Deliveries to Everglades National Park

Authorized as part of the Everglades National Park Expansion Act of 1989:

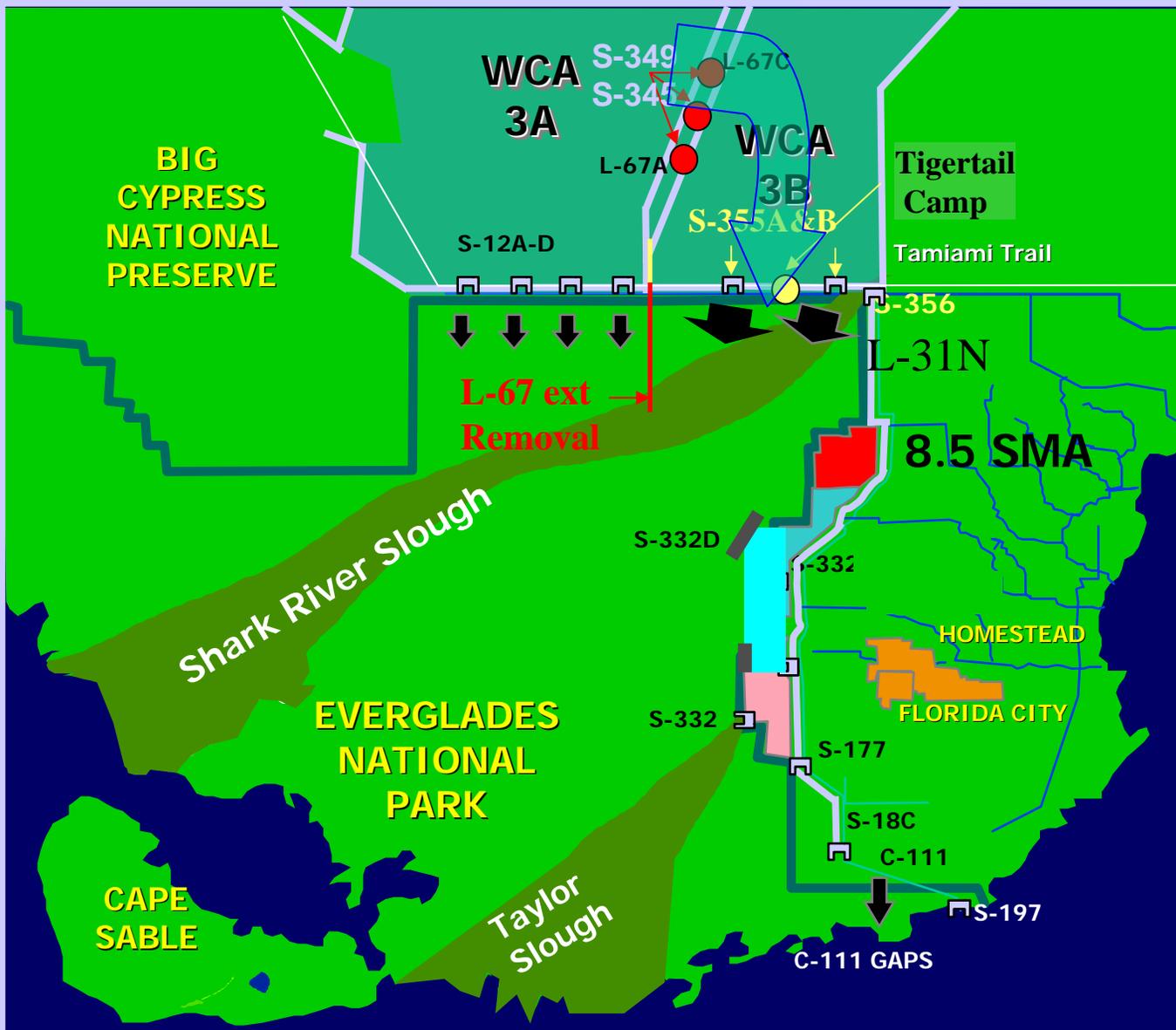
- \$398 million
- construction by Corps of Engineers

Includes:

- Re-establishing historical flow path into ENP.
- Protection of developed areas, housing, businesses, and agriculture areas
- Improvement to Tamiami Trail to allow greater flows and higher water levels

Status:

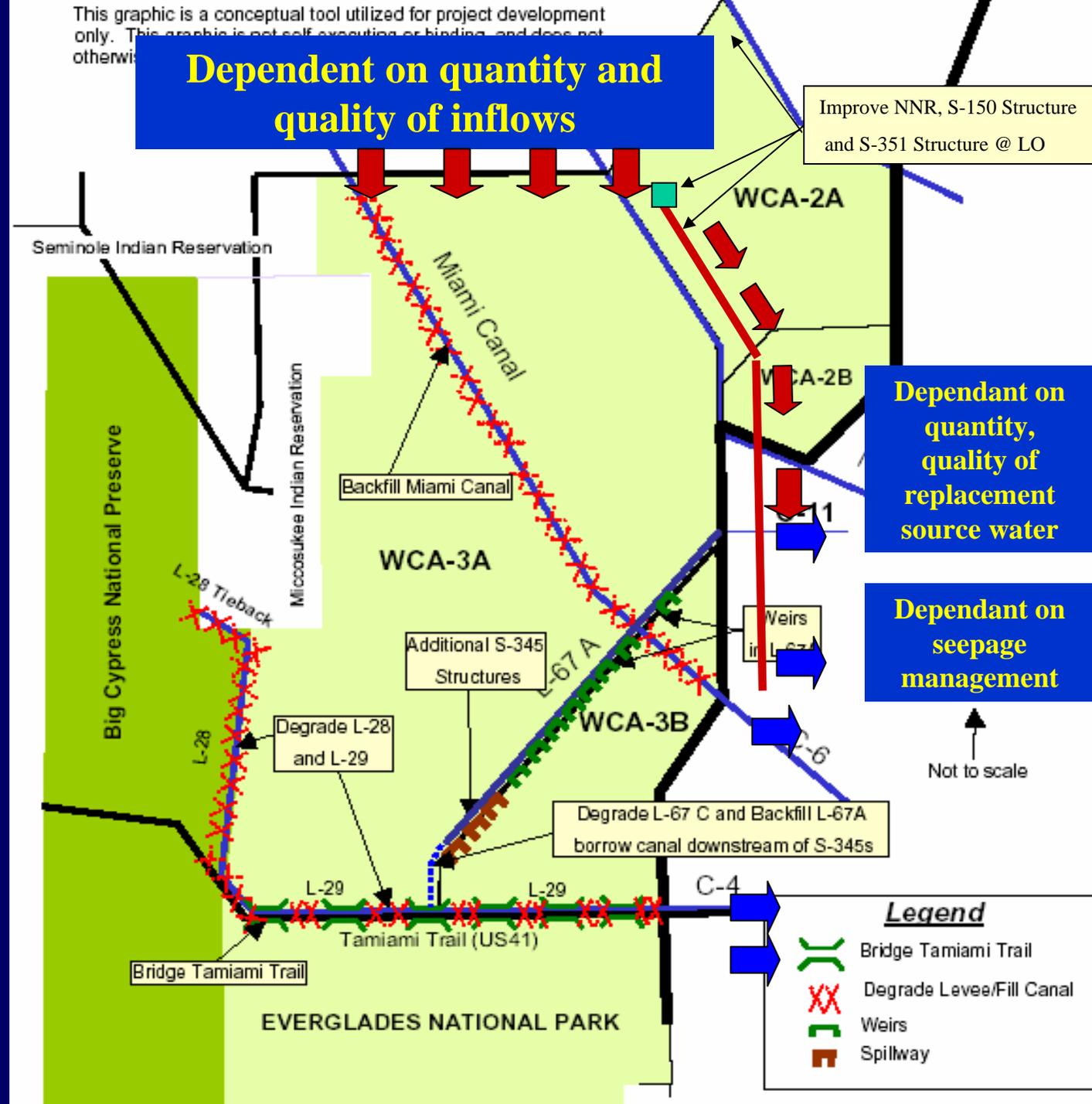
- Construction is underway



Decomp Yellow Book Plan

“Heart” of the restoration effort

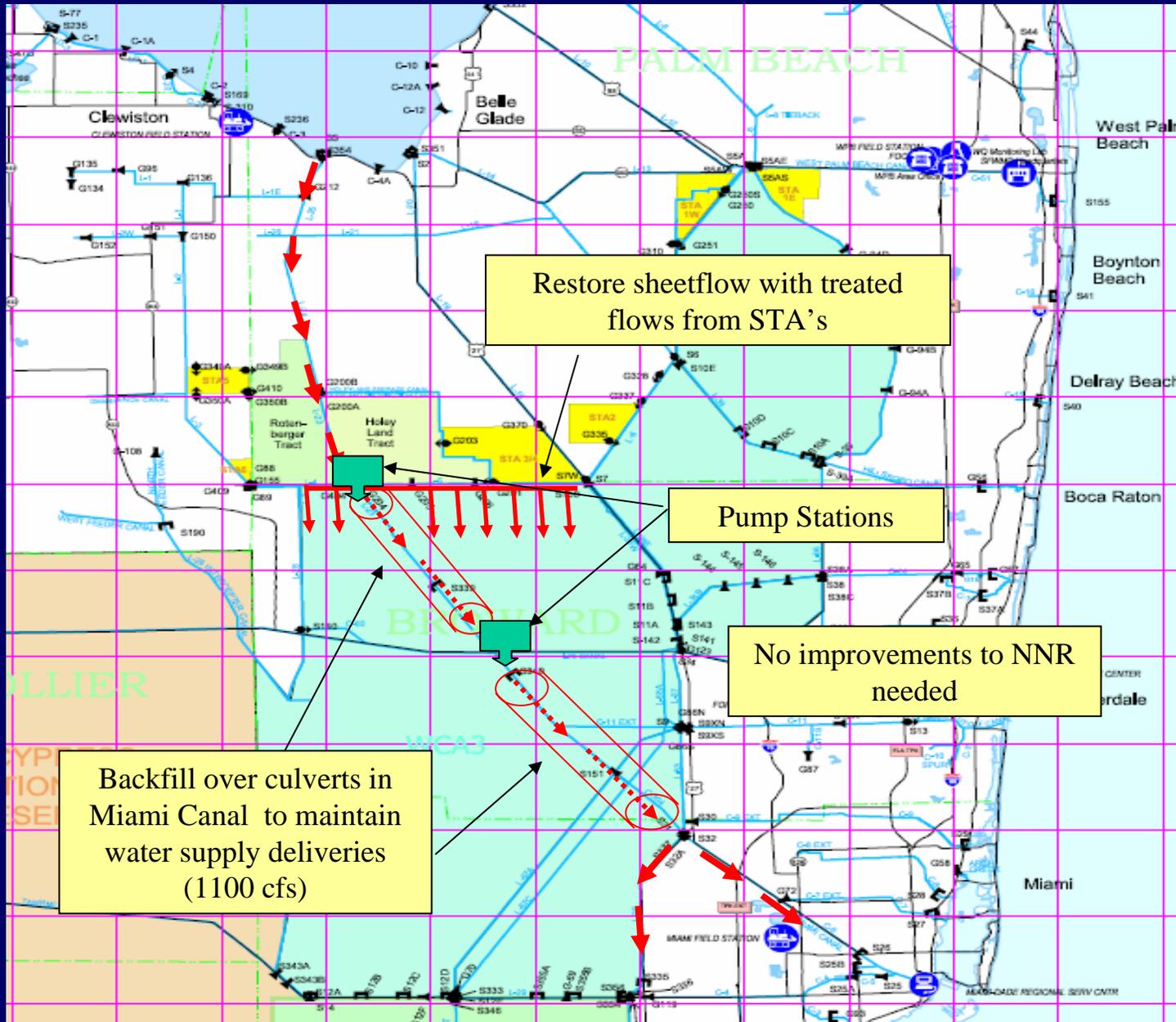
Stakeholders eager to see progress on Decomp



Current Issues with Implementation of Decomp Plan

- Lack of consensus on handling restoration trade-offs
 - Hinders ability to agree on performance measures and targets and to move forward on plan design and evaluation
- Uncertainty on how to quantify benefits of sheetflow and evaluate cost-effectiveness
 - Debate on model types, accuracy, and scale needed to distinguish between alternatives
- Construction timing and project sequencing
 - Sufficient storage to meet next-added justification
 - Sufficient storage to prevent over-drainage of natural areas
 - Sufficient water supply and seepage management to meet savings clause

Miami Canal Backfill Proposal



Benefits of Miami Canal Proposal

- Will restore the natural sheet flow patterns in the WCA-3A
- Will prevent the “short circuiting” of flows to the south and thus the overdrying of northern 3A and the ponding effect in southern WCA-3A
- Adjacent spoil from the Miami Canal excavation is not sufficient to backfill canal, thus additional material would be required or only plugs used.
- Plan would not require excavating or enlarging North New River across Everglades
- Excess material not needed will be used to construct tree islands
- Meets Savings Clause needs for water supply and provides potential for increased water supply to Broward and Miami-Dade County
- Provides clear route south from Lake Okeechobee for Discharges not subject to water levels in WCA’s or STA treatment capacity
- Reduces high lake stages and damaging discharges to the estuaries.
- Allows only clean water to be discharged into Everglades from STA’s and overland flow through WCA 3A.

Water Quality Benefits of Miami Canal Proposal

- WCA's will have better water quality inputs as a larger percentage will come from the STA's
- Less overloading of STA's
- Filling the Miami Canal reduces the route for exotics to travel
- Reduces nutrient loading to ENP by restoring natural sheet flow through WCA 3A and allowing natural assimilation of nutrients

Lower Decomp Plan

- This part addresses flow patterns and ponding in lower end of WCA 3A by:
 - Constructing a flow path from the lower southeast end of WCA 3A through L-67's and southwestern corner of WCA 3B into L-29 and through the new Mod Waters western 2 mile bridge. This will help restore more flow into northeast Shark River Slough.
 - Constructing a new 1-2 mile bridge on Tamiami Trail between S-12D and S-12C to allow free flow of water from WCA 3A to reduce high water events in WCA 3A and help restore the natural flow though concept for WCA 3A.

Lower DECOMP Plan



Decomp Bridge and Flow through:

- New Bridge between S-12C and D to allow for free flow of water from WCA 3A.
- New Flow way from WCA 3A through 3B into NESRS

Bold Decomp Plan Cost Estimate

- The cost will range from about \$1 to \$1.5 billion depending on final plan and capacity provided. High potential to achieve much of the benefits of this plan at the lower cost.

Comments?