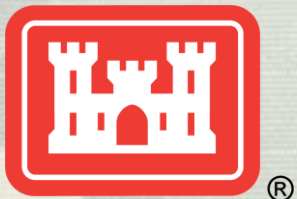


West Palm Beach Canal

C-51 STA-1 East Improvements

Jeff Couch, P.E., PMP
Chief, Okeechobee Section
Ecosystem Branch
Programs & Project Management Division
Jacksonville District

5 August 2011
Baltimore, MD



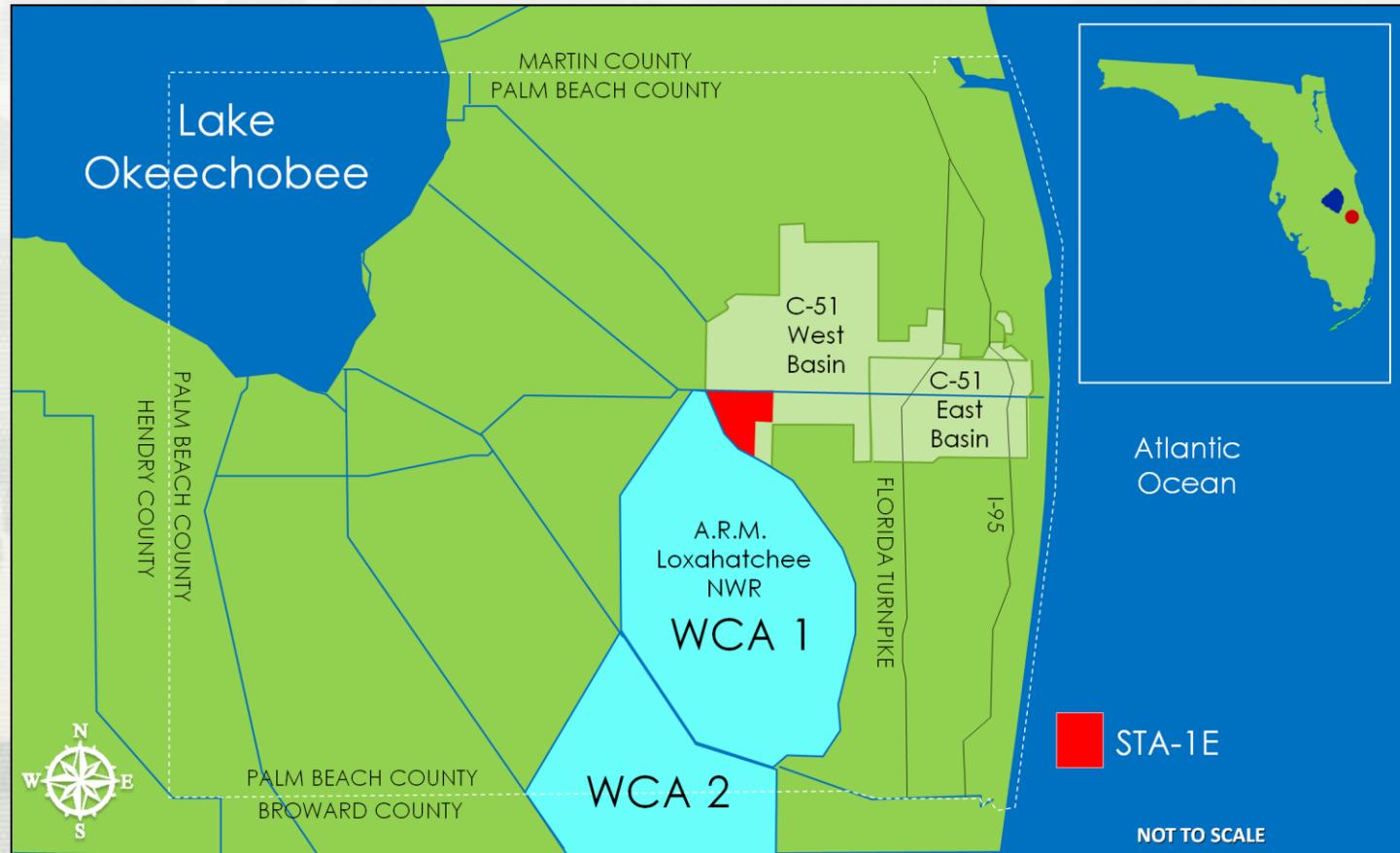
STA-1E Improvements

Outline

- Purpose & Location
- Project History and Background
- Project Features
- Project Deficiencies
- Issue Resolution
- Project Status
- Key Elements of Success



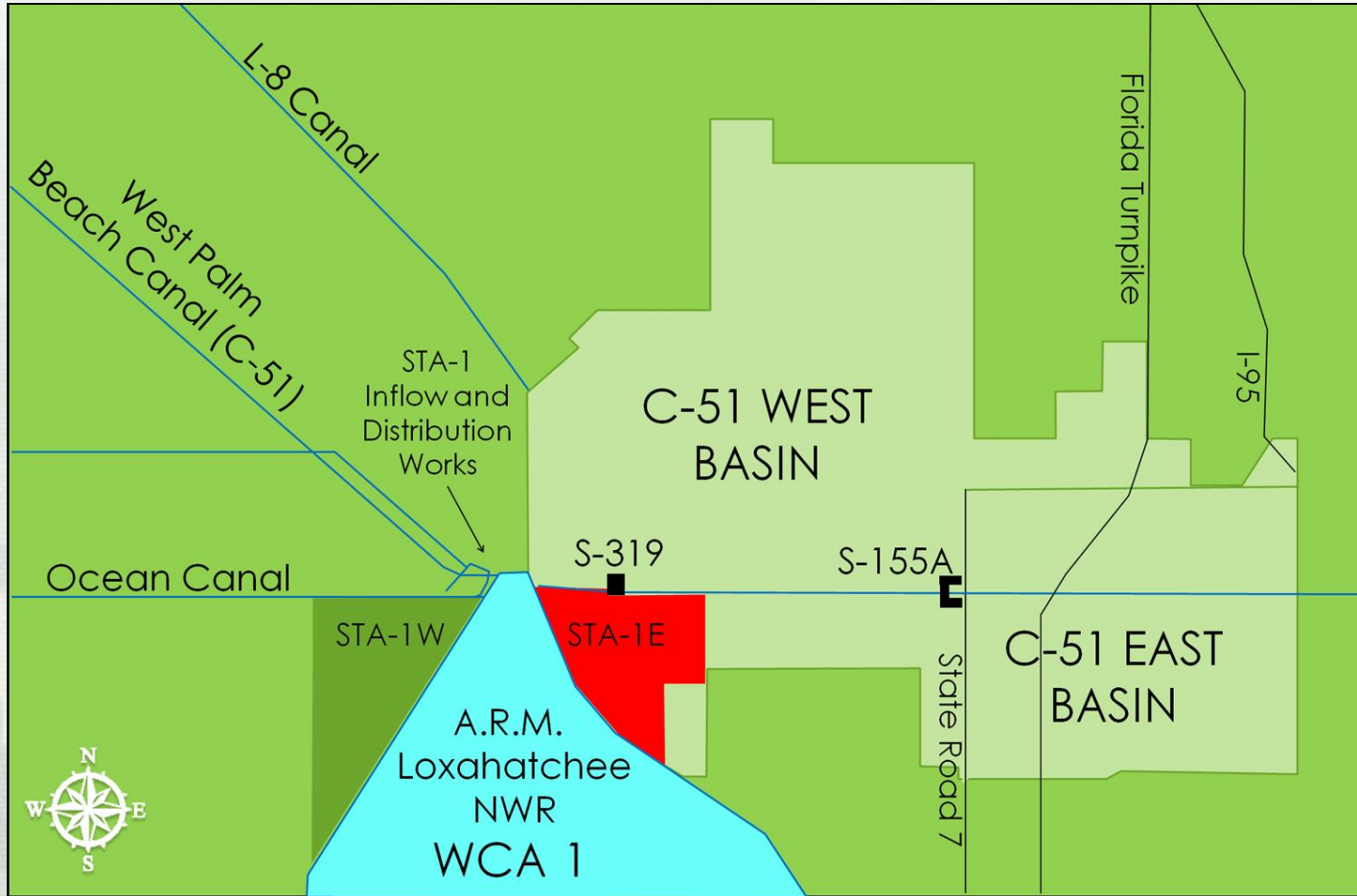
CENTRAL AND SOUTHERN FLORIDA PROJECT



WEST PALM BEACH CANAL (C-51) / STA 1E



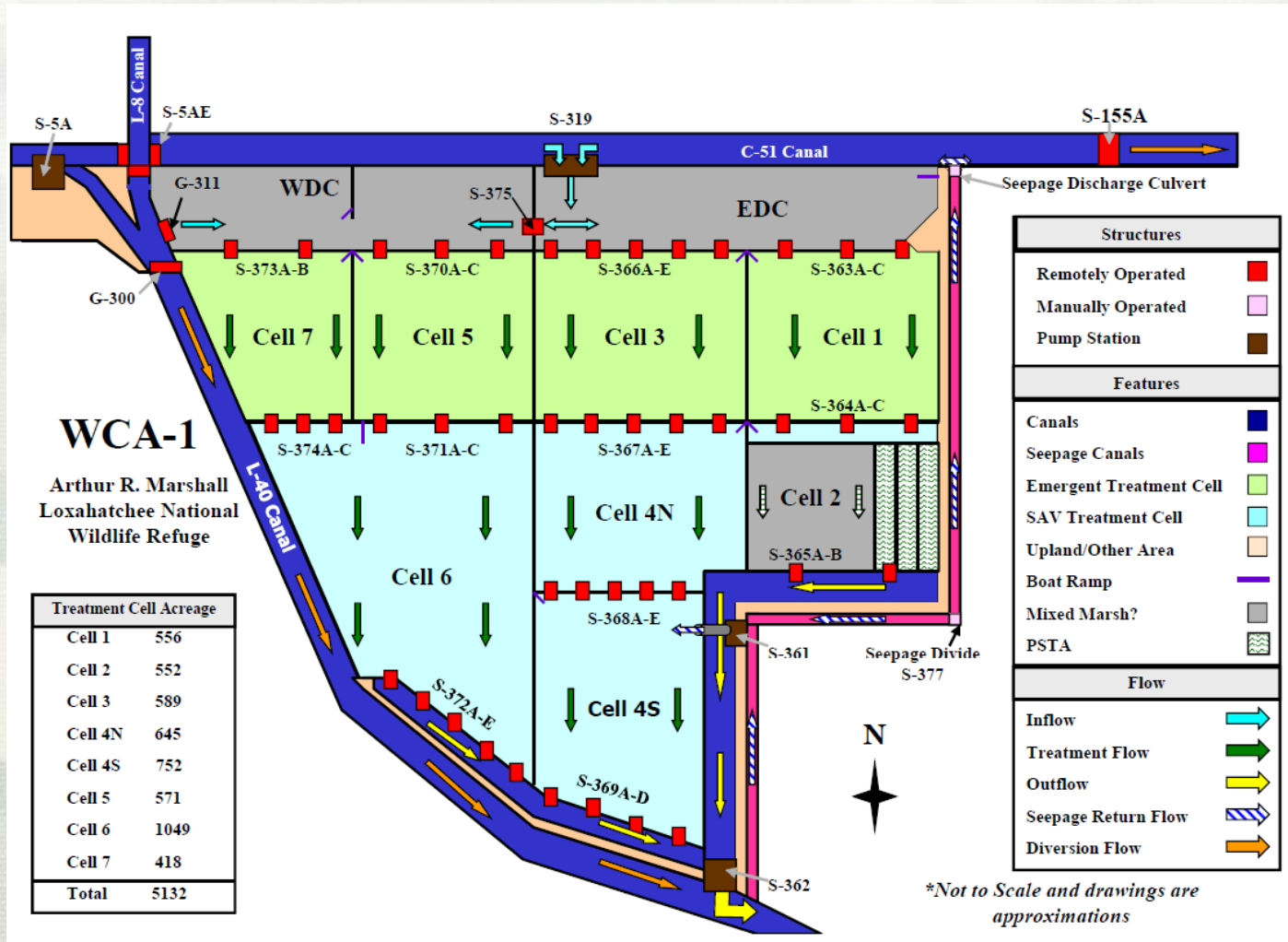
CENTRAL AND SOUTHERN FLORIDA PROJECT



WEST PALM BEACH CANAL (C-51) / STA 1E



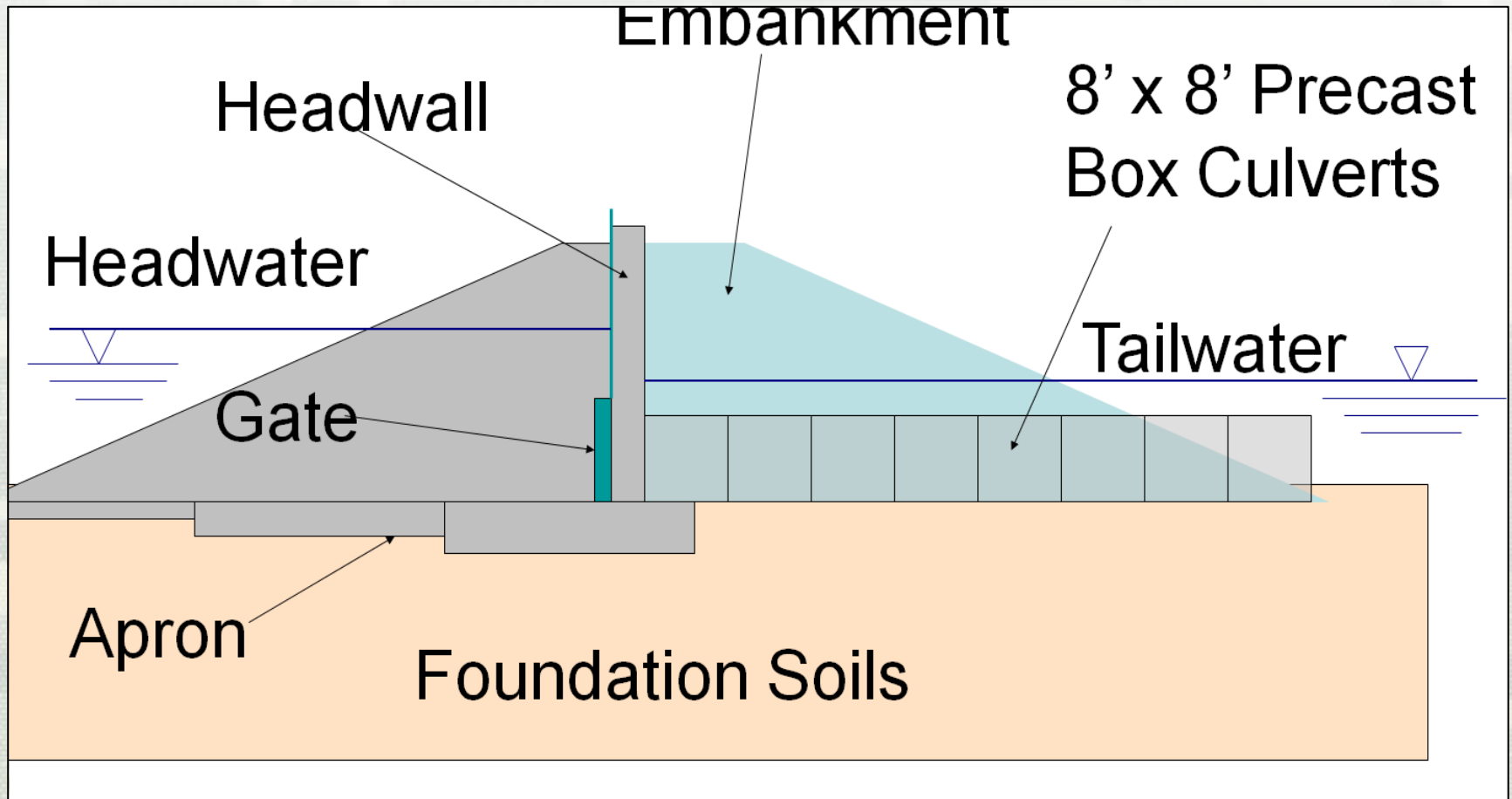
CENTRAL AND SOUTHERN FLORIDA PROJECT



WEST PALM BEACH CANAL (C-51) / STA 1E



Cross Section of Typical Culvert



Culvert Installation



Segmented box culvert 8' x 8'



Project Deficiencies

- **Joint deterioration between precast culvert areas**
- **Avg bottom elevations in Cells 5 and 7 are about 0.6 and 1.2 feet lower than design targets**
- **Trash rakes – various issues**
 - **Spatial variability in bottom elevations in all cells exceed the design values.**
 - **In several cases, there are serially aligned low areas that are likely to induce short-circuiting from inlet to outlet.**



Problems with Trash Racks



Accumulated debris at S-362



Deformed Trash Rack at S-319



Issue Resolution Timeline

- **2005 Project Transferred to SFWMD for O&M**
- **Jun 2008 - SFWMD identifies failure at S-375**
- **USACE initial response – not our problem, project transferred, it's in O&M phase**
- **Jul 2008 – tune changed, discussions with SFWMD on fixing problems**
- **Dec 2008 – HQ/SAD listening session (no SAJ involvement)**



Issue Resolution Timeline (cont.)

- **Aug 2009 – Joint Technical Team requested (Project Delivery Team with focus)**
- **Jan 2010 – Plan presented to Joint PRB became basis for modifications report**
- **Jul 2011 - Modifications report approved**
- **Sep 2011- Scheduled contract awards for S-362 trash racks and 17 culvert repairs**



Key Elements of Success

A combination of the right leadership and the right people involved...



- Good Collaborative Relationship
- SFWMD Operations Involved
- HQ/SAD spotlight
- Litigation spotlight
- Worked within authority
- Funds Availability



West Palm Beach Canal

C-51 STA-1 East Improvements



Questions

