

C-51 Reservoir Partnership Study

SFWMD Project and Lands Committee

Presented by Dean Powell, SFWMD

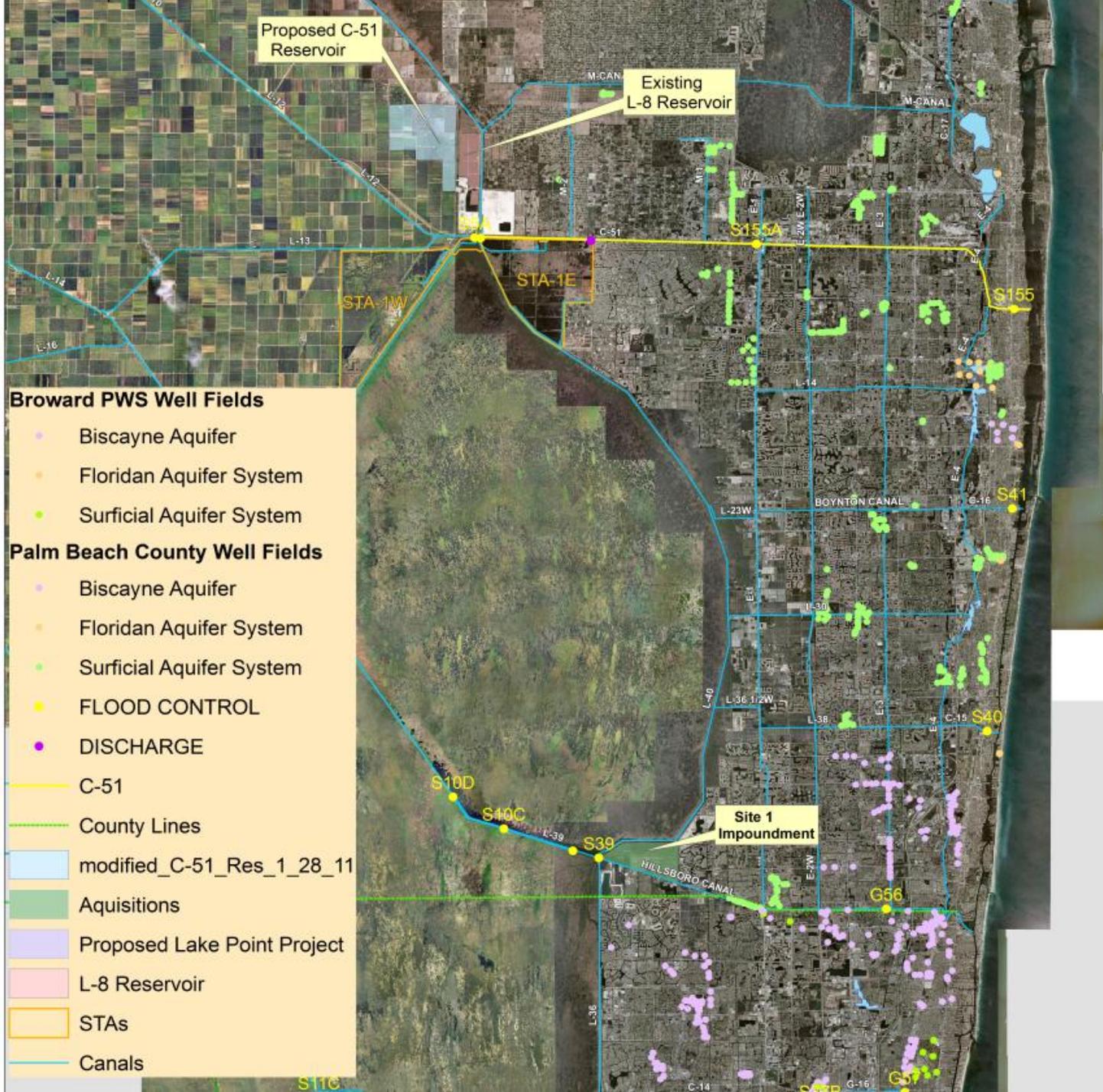
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sfwmd.gov

Project Concept

- Capture excess surface water currently being discharged to the Lake Worth Lagoon from C-51 canal
- Store water for public water supply, environmental restoration needs of the Everglades and other beneficial uses
- Limit damaging impacts of discharges to Lake Worth Lagoon



Broward PWS Well Fields

- Biscayne Aquifer
- Floridan Aquifer System
- Surficial Aquifer System

Palm Beach County Well Fields

- Biscayne Aquifer
- Floridan Aquifer System
- Surficial Aquifer System

● FLOOD CONTROL

● DISCHARGE

— C-51

— County Lines

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— Aquisitions

— Proposed Lake Point Project

— L-8 Reservoir

STAs

— Canals



Initial Utility Sponsors

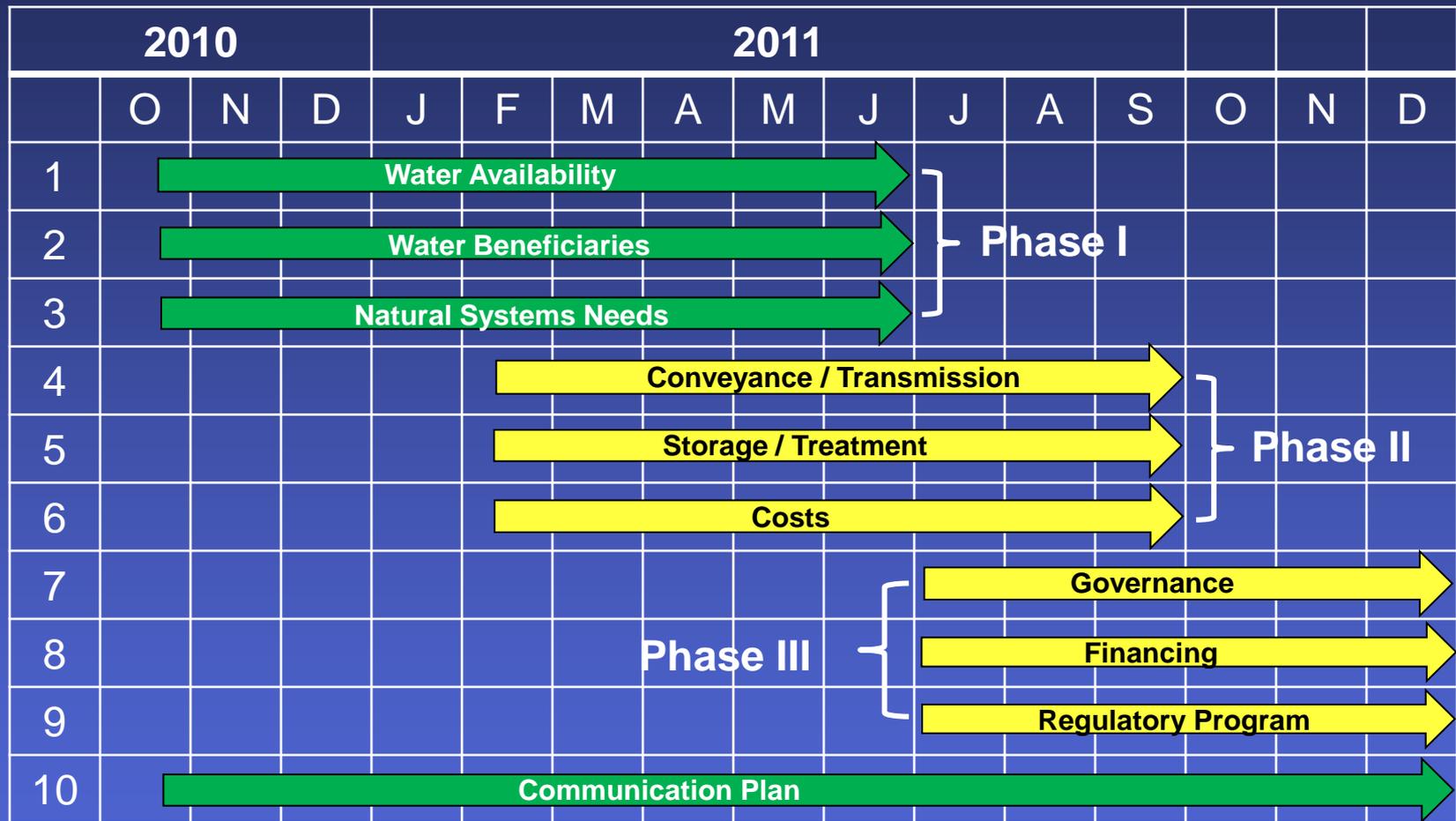


- Broward County
- Ft. Lauderdale
- Hollywood
- Palm Beach County
- Pompano Beach
- Plantation
- Sunrise

SFWMD Board Direction

- **Governing Board October 13, 2010 – presentation on the Broward County Water Resources Task Force Report**
- **Report highly recommended pursuing feasibility of concept C-51**
- **Board discussed potential benefits to Everglades restoration efforts to meet water quality obligations**
- **Board directed staff to take the lead in developing consensus for this major regional water supply project**

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■ Water Availability

- High-level modeling and data analysis
- Test functionality in the existing condition and CERP conditions.
- Use to assess alternative plans and quantify water available for the project.

(Utility study (2010) estimated 120 MGD available for a 1 in 10 year drought)

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■ Water Beneficiaries

Identify future need and timing

- Public Water Suppliers
- Agriculture
- Industry
- Others

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■ Natural System Needs

Identify future need and timing

- Everglades water quality obligations
- Loxahatchee Wildlife Refuge
- CERP related water demands
- Flow to Lake Worth Lagoon
- Others

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■ Phase III Challenge

**Align the timing of the need for water with
the ability to fund the need well in
advance of the demand**

Other Current Activities

- Model configuration
- MOU development with utilities and LWDD
- Milestone schedule review
- Communication Plan
 - Public workshops begin in March
 - Website information under development

Questions?

