Restoration Strategies

A-1 Flow Equalization Basin (FEB) Initial Operations Update

Long-Term Plan Communications Meeting
March 4, 2016

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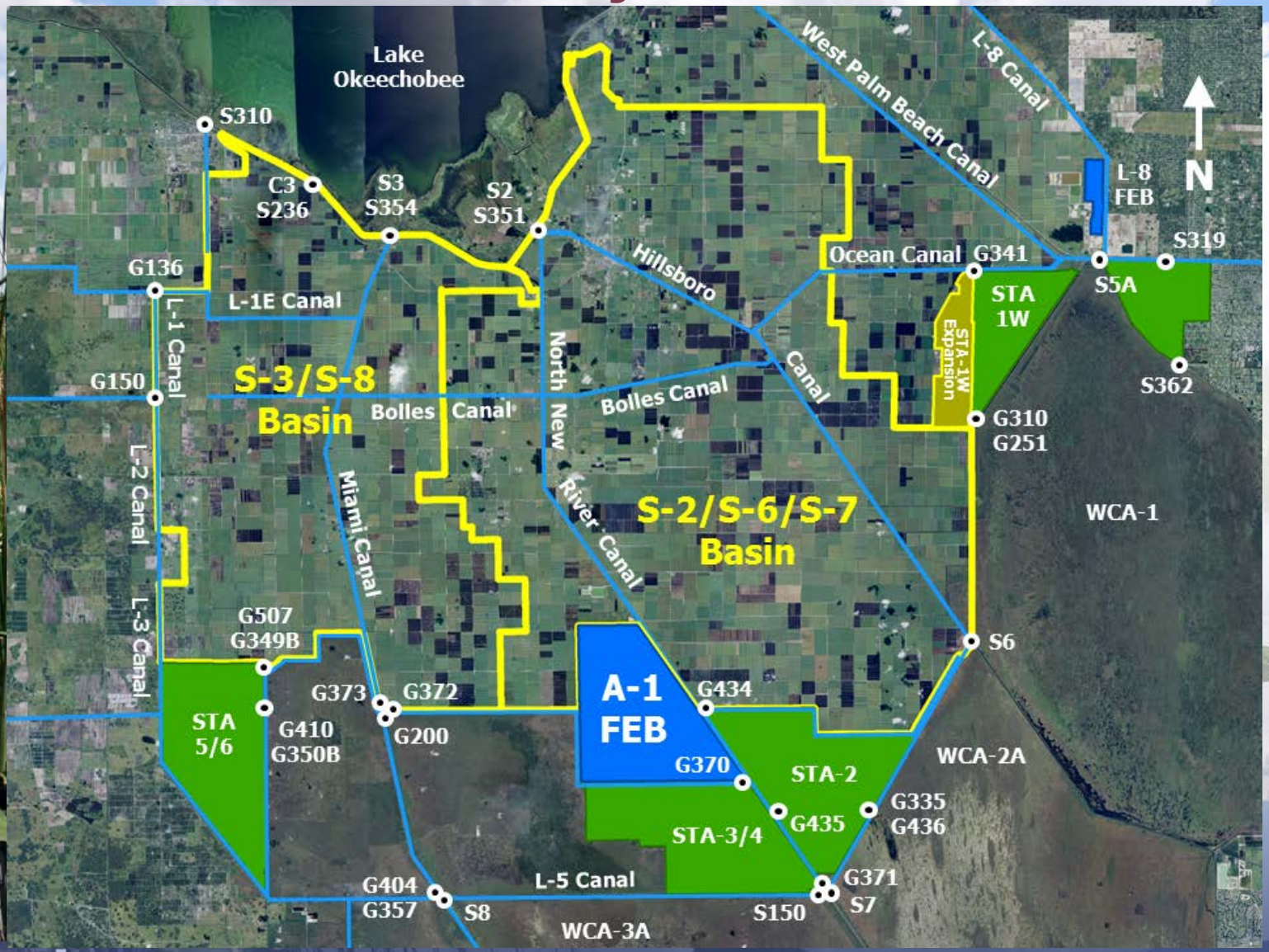
Chief Engineer, South Florida Water Management District

A-1 FEB Project Location



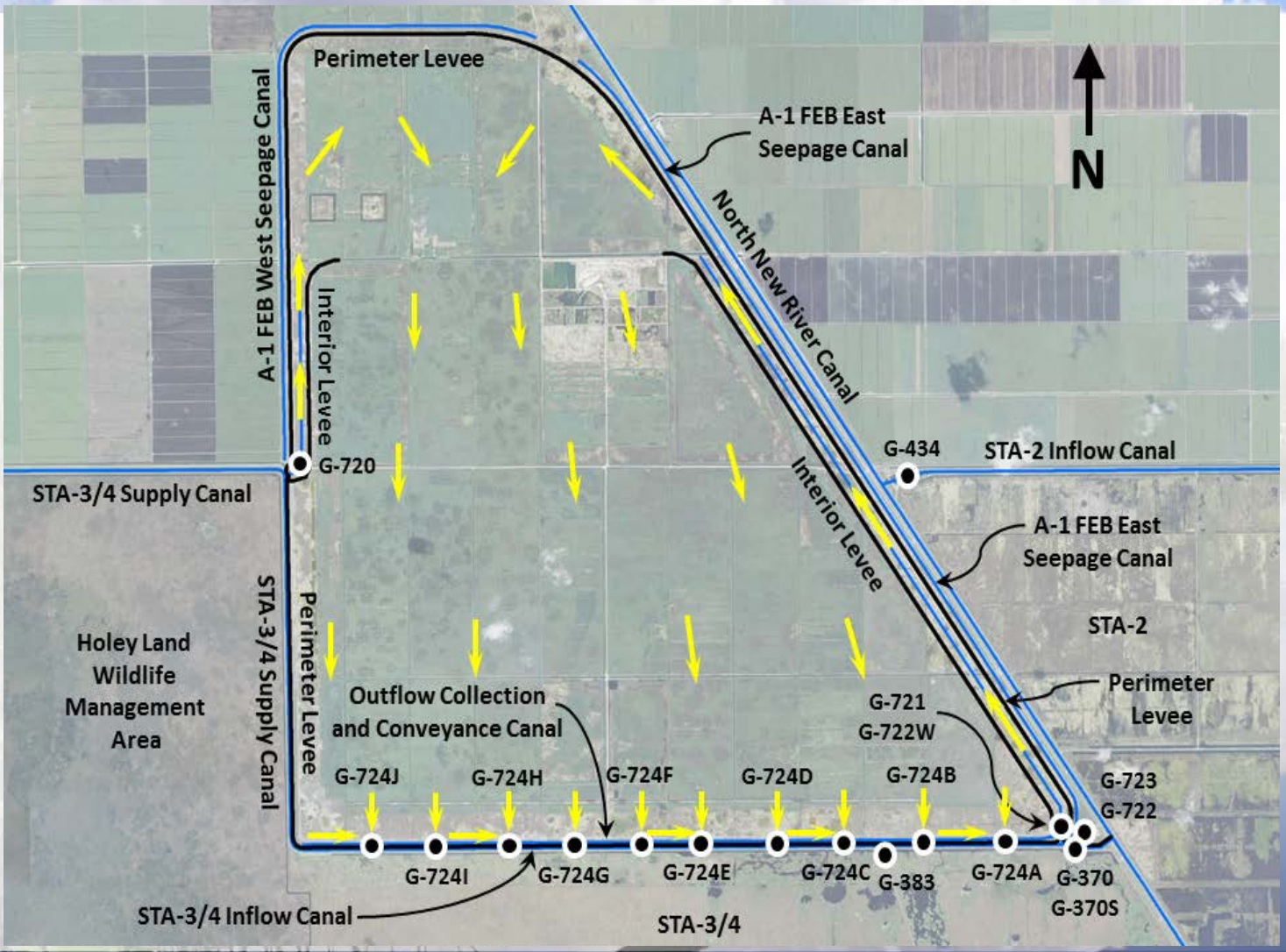
A-1 FEB Project Purpose

- Attenuate peak stormwater runoff flows, temporarily store stormwater runoff and improve delivery rates to STA-2 & STA-3/4 for enhanced operation and phosphorus removal
- Expand water storage south of Lake Okeechobee
- Additional operational flexibility related to flood protection and water supply operations
- Help maintain minimum water levels and reduce frequency of dryout within STA-2 and STA-3/4
- Maintain existing levels of flood protection
  - Not intended to increase level of flood protection

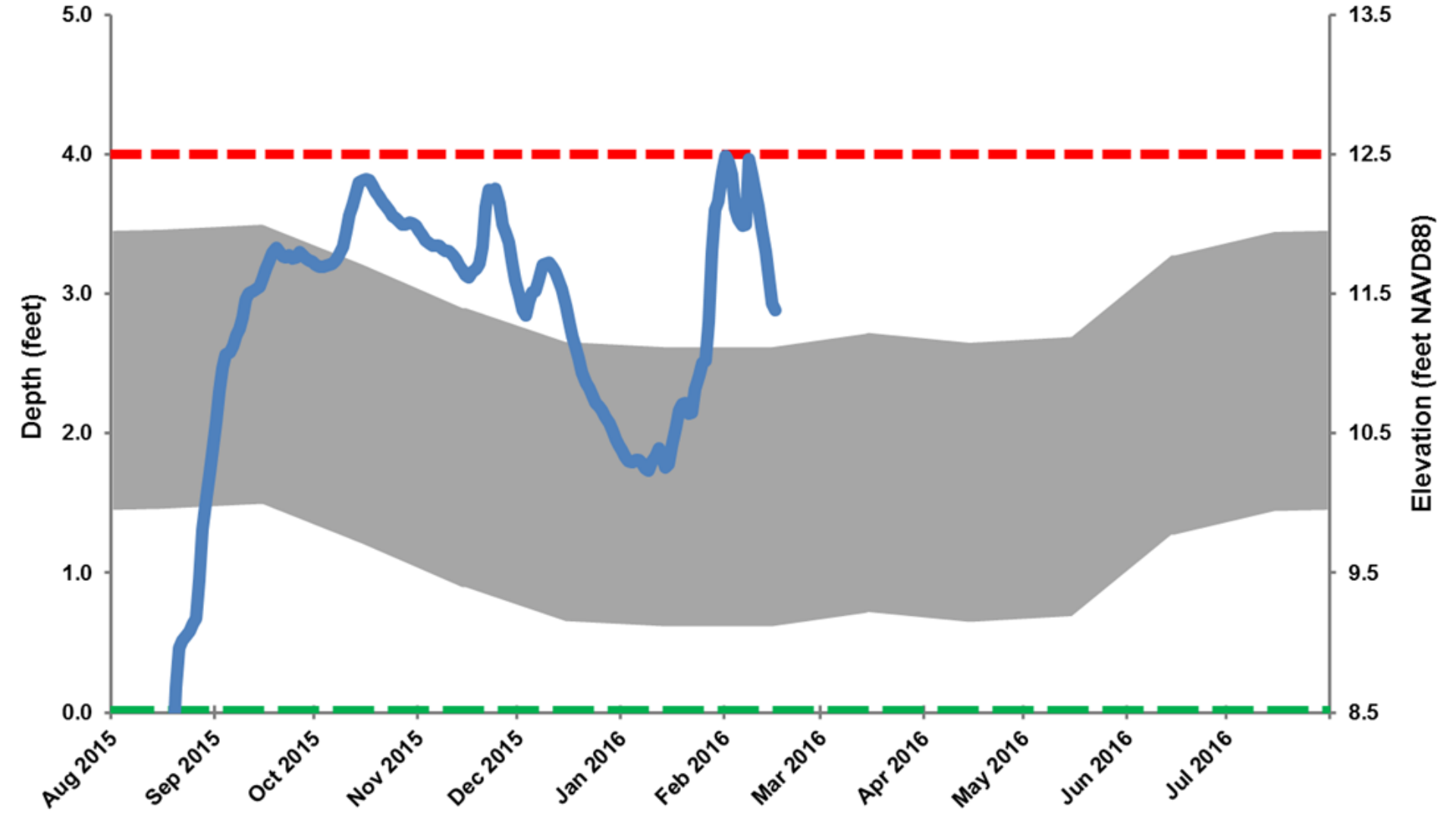
A-1 FEB Quick Facts

- **15,000 acres x 4 feet maximum depth = 60,000 acre-feet of storage**
- **Stages will fluctuate between approximately 8.5 and 12.5 feet NAVD88 (9.9 and 13.9 feet NGVD29)**

A-1 FEB Structure Map



A-1 FEB Initial Operating Stages



Linkage to Restoration Strategies Science Plan

- **Study: *Development of Operational Guidance for FEB and STA Regional Operational Plans***
- **Purpose is to develop tools and methodologies to be used to provide operational guidance for FEBs and STAs**
  - **Optimal weekly target flow rates and estimated gate openings**

A-1 FEB Inflow Spillway G-720

G-721 FEB Inflow on January 28, 2016

Rubicon™ Solar-Powered Discharge Structures

Questions?