



Biscayne Bay Coastal Wetlands

Tentatively Selected Plan



July 2006 South Florida Ecosystem Restoration

Yellow Book

- Yellow Book
 - Yellow Book was conceptual
 - Identified objectives
- Project Delivery Team
 - BBCW team developed the YB Alt based on YB objectives
 - Final array includes five alternative plans

Objectives

- Reestablish productive nursery habitat along the shoreline
- Redistribute freshwater flow to minimize point source discharges to improve freshwater and estuarine habitat
- Enhance and improve quantity, quality, timing and distribution of freshwater to the Bay, including BNP
- Preserve and restore spatial extent of natural coastal glades habitat
- Reestablish connectivity between Biscayne Bay Coastal Wetlands, C-111 Basin, Model Lands and adjacent basins

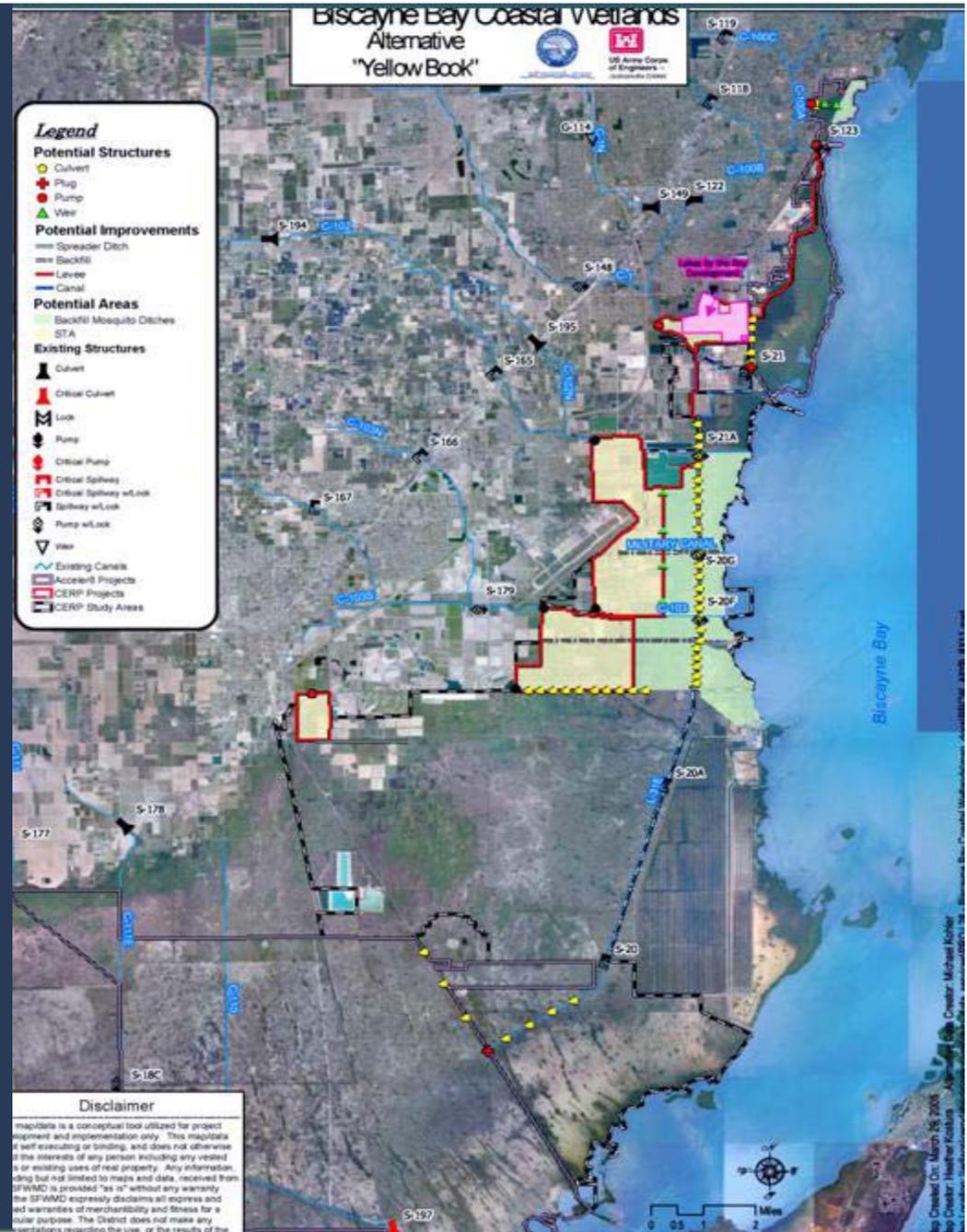
Final Array of Alternatives

- No-Action (FWOP)
- Yellow Book
- Alt Q
- Alt M
- Alt O

Yellow Book

Biscayne Bay Coastal Wetlands

- Outlined study area
- No specific “plans”
- Developed based upon objectives

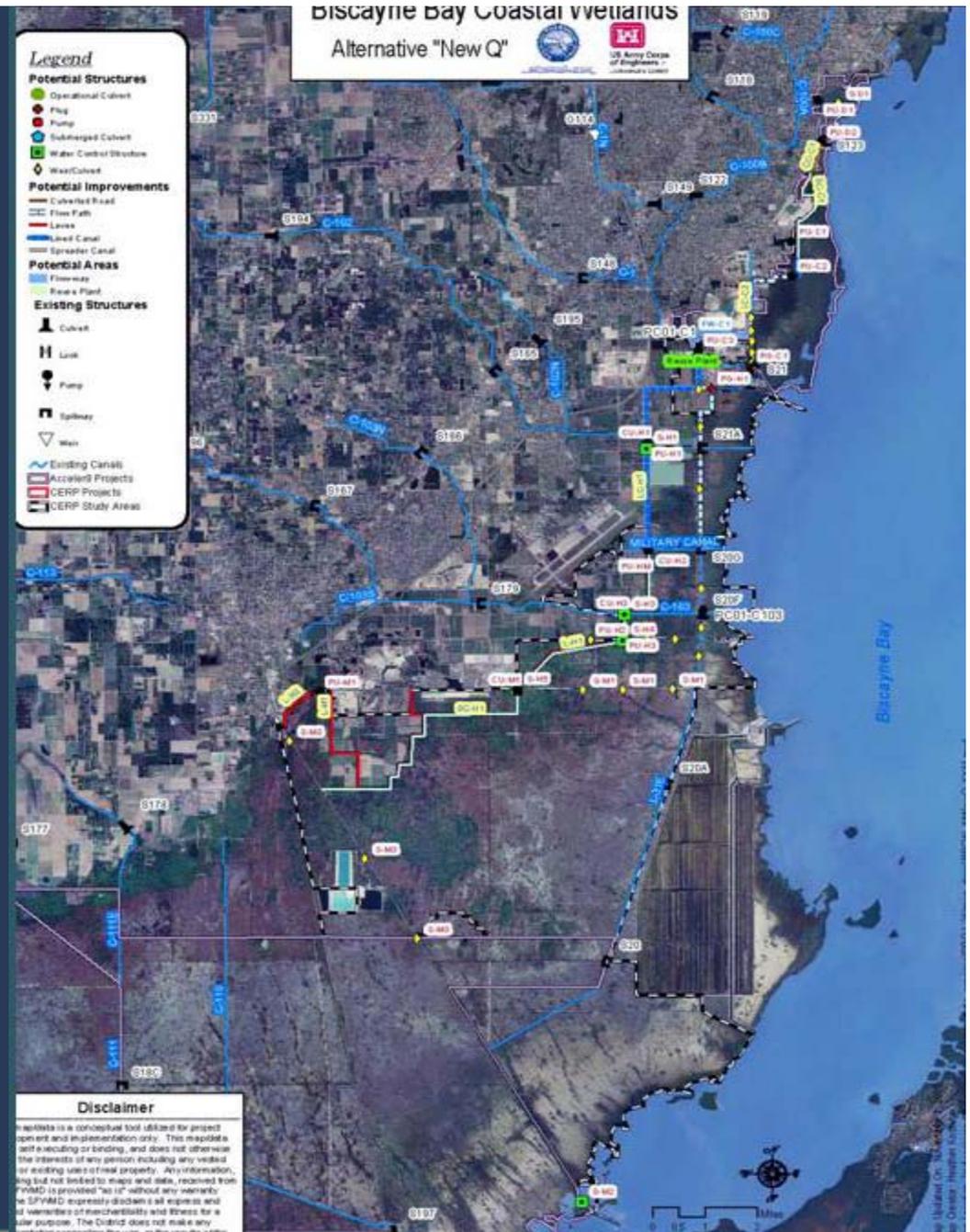


Biscayne Bay Coastal Wetlands

Alt Q

Biscayne Bay Coastal Wetlands

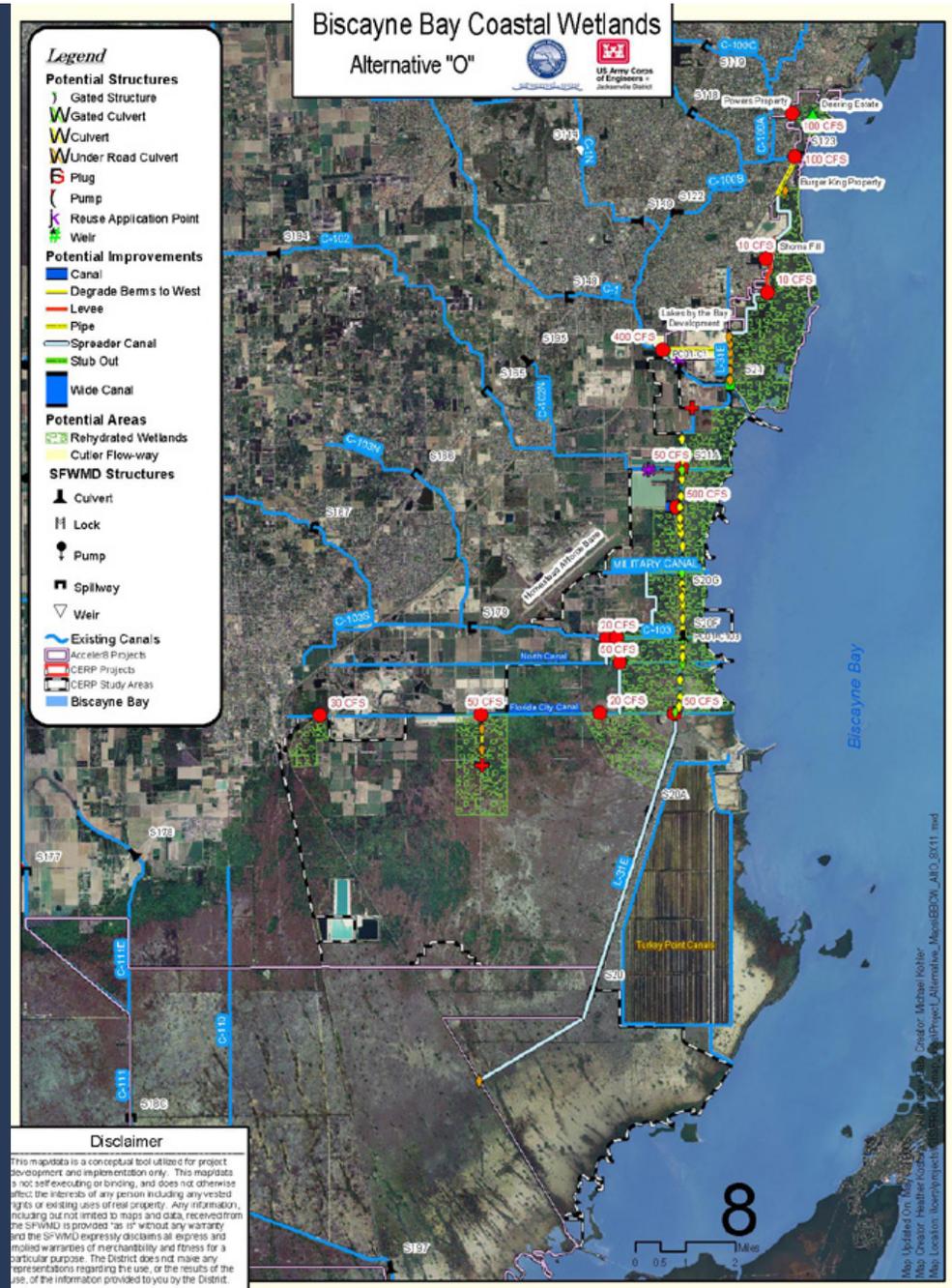
- Flow ways
- Spreader Canals
- Canal discharge redistribution
- Intensive land acquisition



Alt O (TSP)

Biscayne Bay Coastal Wetlands

- Optimizes use of existing canals
- Canal discharge redistribution
- Flow ways
- Moderate land acquisition



Why Alternative O

- Lowest average annual cost per unit of output for each ecological zone
- Large degree of flexibility for operational changes and future adaptive management capability
- WQ treatment via freshwater wetlands before discharging into Biscayne Bay, an OFW
- Close to meeting YB benefits level

Risk & Uncertainty

- Benefits analysis methodology employed Best Professional Judgment supported by limited modeling results
- Water availability in this region is a critical concern. There is possibility of improving some areas to the detriment of others
- Wastewater Reuse is key to providing many of the benefits for BBCW; when Next Added Increment analysis is done, loss of benefits might be substantial
- HTRW remediation costs may be substantial and may prohibit use of certain lands
- Project recommendation is to build in phases and implement alternative permitting strategy for Phase 1 (Acceler8)

Project Issues

- Refined modeling capability needed for detailed design of TSP, Next Added Increment, Project Assurances and Savings Clause analyses
- AFB has been postponed to accommodate completion of the Next Added Increment analysis

Milestones

- Tentatively Selected Plan Complete May 06
- Additional Modeling Scoped and Initiated Jul 06
- Implement Alternative Permitting Strategy Aug 06
- Modeling Complete Sep 06
- Alternative Formulation Briefing Jan 07
- Draft PIR/NEPA Report Posted
in Federal Register Apr 07
- Start Construction on A8 Features Aug 07
- Final PIR/NEPA Posted in Federal
Register Nov 07