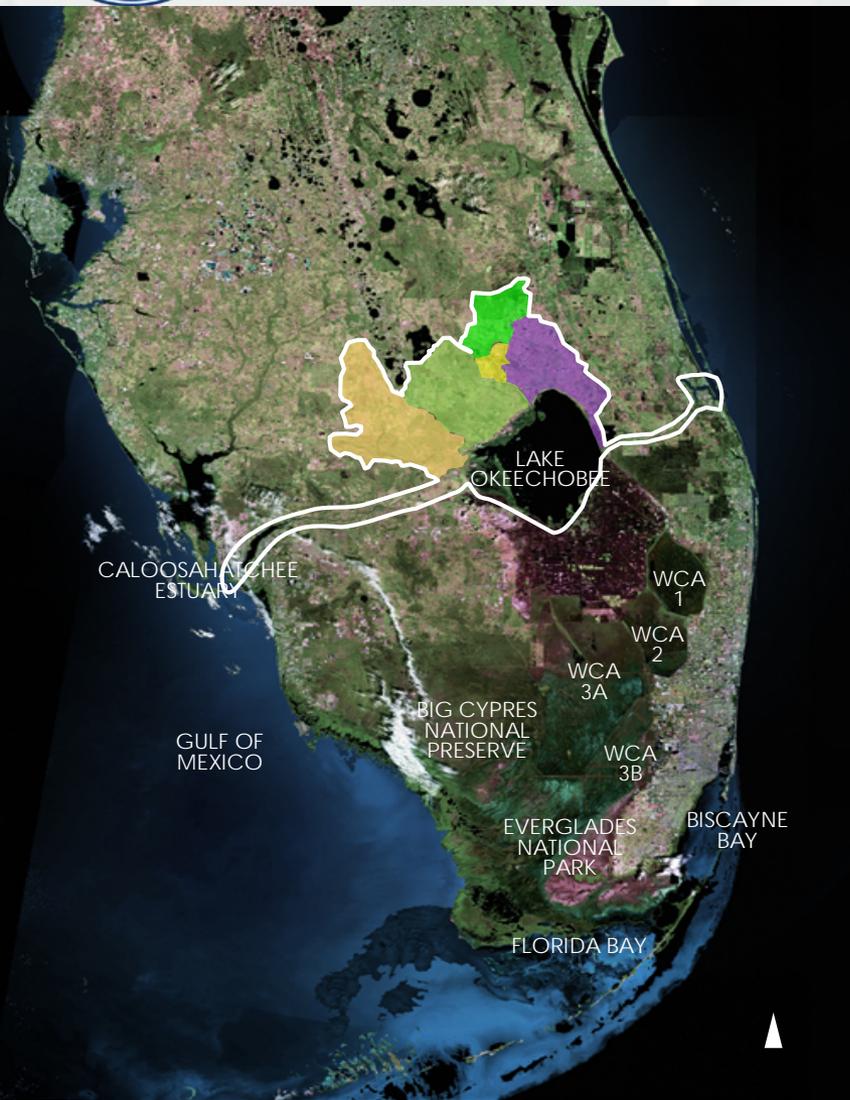




# LAKE OKEECHOBEE WATERSHED PROJECT OVERVIEW



| COMPONENT AS DESCRIBED IN THE CERP YELLOW BOOK   | COMPONENTS CARRIED FORWARD IN LOWP                      |
|--|---|
| 1. Taylor Creek/Nubbin Slough Storage & Treatment Area<br>2. North of Lake Storage Reservoir | Reservoir storage (Yellow Book target of 250,000 ac-ft) |
| 3. Lake Okeechobee Watershed Water Quality Treatment Facilities                              | Wetland restoration (Yellow Book target of 3,500 acres) |
| 4. Lake Okeechobee Aquifer Storage & Recovery (ASR)  | Up to 112 ASR wells                                     |
| ADDITIONAL PROPOSED COMPONENTS   | CAPACITY  |
| 5. Deep Injection Wells (Not included in Yellow Book)  | 30-90 DIWs  |

## PROJECT OBJECTIVES

- Improve quantity, timing and distribution of flows into Lake Okeechobee to maintain ecologically desired lake stage ranges → 1,2,4
- Improve the salinity regime and the quality of oyster, submerged aquatic vegetation, and other estuarine community habitats in the northern estuaries → 1,2,4, 5
- Increase spatial extent and functionality of wetland habitat throughout the Lake Okeechobee watershed → 3
- Proposed scope addition: Increase water supply availability for existing permitted water users of Lake Okeechobee → 1,2,4





# INITIAL ARRAY OF ALTERNATIVES



**BUILDING STRONG**

1<sup>st</sup> round of modeling to optimize water storage and recovery components for improvement of Lake Okeechobee lake stages and undesirable regulatory releases to northern estuaries

2<sup>nd</sup> round of modeling to optimize water management component for improvement of undesirable regulatory discharges to northern estuaries and to identify wetland restoration sites storage capacity

**1<sup>ST</sup> ROUND OF MODELING**

**2<sup>ND</sup> ROUND OF MODELING**

| Alternative    | Reservoir Component             |                              | ASR Component                           | DIW Component                       | Compatible Wetland Components                           |
|----------------|---------------------------------|------------------------------|---|-------------------------------------|---|
|                | Reservoir (s)                   | Storage Capacity (acre-feet) | # of ASR wells (assuming 5mgd capacity) | # of DIWs (assuming 15mgd capacity) |   |
| No Action      |                                 |                              |   |                                     |   |
| Alternative 1  | K05 (North and South)           | 267K                         | 110                                     | 30-90                               | Kissimmee River<br>Paradise Run                         |
| Alternative 2a | K-05 (North and South) and K-42 | 437K                         | 110                                     | 0                                   | Kissimmee River<br>Paradise Run<br>Lake O West<br>IP-10 |
| Alternative 2b | K-05 North and K-42             | 291K                         | 110                                     | 30-90                               | Kissimmee River<br>Paradise Run<br>Lake O West<br>IP-10 |
| Alternative 3  | K-42 and I-01                   | 295K                         | 112                                     | 30-90                               | Kissimmee River<br>Paradise Run<br>Lake O West          |

