

# Acronym Soup The ABC's of Everglades Restoration

**Everglades Coalition Annual Conference January 10, 2020** 

Doug Gaston Moderator

#### **Panelists:**

Howard Gonzales Jr.
Chief, Ecosystem Branch
Programs & Project Management Division
USACE Jacksonville District

Shannon Estenoz
Vice President of Policy and Public Affairs
Chief Operating Officer
Everglades Foundation

Lawrence Glenn
Division Director, Water Resources
South Florida Water Management District

#### Acronym Soup?

DEP **BMAP BMP HHDRP CEPP TMDL DSAC SFWMD HAB FDACS** SAV **LOWRP** LOSOM **NEPA** EIS



F. I. S. H.

FUN
INFORMATIVE
STIMULATING
HELPFUL



#### River of Grass

Extended from Upper Kissimmee to Florida

Bay
Sawgrass marshes
Prairies
Ridge and slough
Tree Islands
Wetlands



#### **Significant Events in Everglades History**

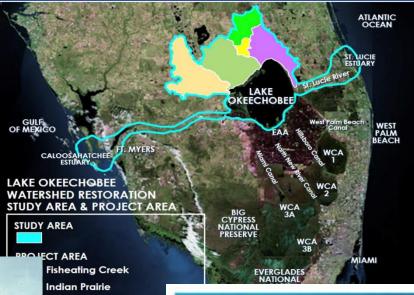
- 4 Major Canals Constructed Hillsboro, West Palm Beach, North New River and Miami
- Canals constructed connecting Lake Okeechobee with the Caloosahatchee and St. Lucie Rivers
- Construction of Tamiami Trail Disrupts North/South Flow to Everglades National Park and Florida Bay
- Central and South Florida (C&SF) Project enacted to provide flood protection and other water control benefits to Central and South Florida
- Herbert Hoover Dike creates a 143 mile embankment around Lake Okeechobee
- Kissimmee River dredged and channelized into a 30-foot deep straightaway called the C-38 Canal
- o Everglades Agricultural Area Established south of Lake Okeechobee

#### **Significant Consequences**

S-65D S-65E

#### **Harmful Algal Blooms**





**Water Wasted** to Tide

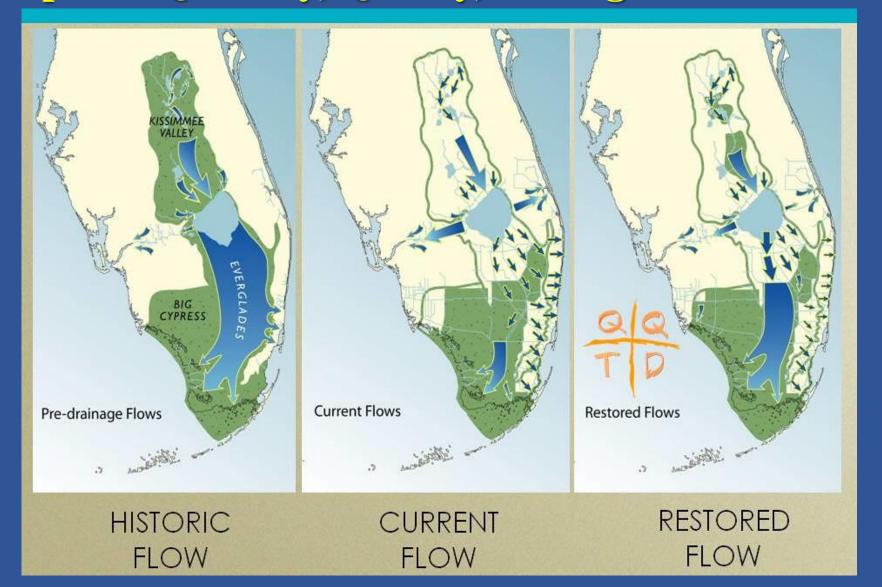






**Seagrass Die Offs in Florida Bay** 

### **Everglades Restoration Improve Quantity, Quality, Timing & Distribution**



#### ATLANTIC OCEAN OKEECHOBEE Active USACE Projects 1. Herbert Hoover Dike (HHD) 2. Kissimmee River Restoration (KRR) **Authorized Pre-2000** 3. West Palm Beach Canal (C-51/STA-1E) 4. Seminole Big Cypress Reservation 5. Tamiami Trail (Bridge) Modifications 6. Modified Water Deliveries to ENP 7. C-111 South Dade (C-111 SD) 8. Indian River Lagoon - South (IRL-S) 9. Picavune Strand Restoration (PSRP) 10. Site 1 Impoundment 11. Melaleuca Eradication 12. C-111 Spreader Canal (C-111 SC) 13. Biscayne Bay Coastal Wetlands (BBCW) **FLORIDA** 14. Broward County Water Preserve Areas (BCWPA) BAY 15. C-43 West Basin Storage Reservoir 16. Central Everglades Planning Project (CEPP) 17. Loxahatchee River Watershed Restoration Project (LRWRP) 18, Lake Okeechobee Watershed Restoration Project (LOWRP) 19. Western Everglades Restoration Project (WERP)

#### CERP

## COMPREHENSIVE EVERGLADES RESTORATION PLAN



#### C & SF

### CENTRAL AND SOUTHERN FLORIDA PROJECT

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#### KRR

### KISSIMME RIVER RESTORATION

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#### **MWD**

## MODIFIED WATER DELIVERIES TO EVERGLADES NATIONAL PARK



#### **C-111 SD**

#### CANAL 111 SOUTH DADE



#### HHDRP

## HERBERT HOOVER DIKE REHABILITATION PROJECT

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#### LOSOM

LAKE
OKEECHOBEE
SYSTEM
OPERATING
MANUAL

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#### RECOVER

## RESTORATION COORDINATION AND VERIFICATION



#### **PDT**

### PROJECT DELIVERY TEAM



#### PIR

### PROJECT IMPLEMENTATION REPORT



#### NEPA

#### NATIONAL ENVIRONMENTAL POLICY ACT

#### ATLANTIC OCEAN OKEECHOBEE MEXICO Active USACE Projects 1. Herbert Hoover Dike (HHD) 2. Kissimmee River Restoration (KRR) Authorized Pre-2000 3. West Palm Beach Canal (C-51/STA-1E) Authorized 2007 4. Seminole Big Cypress Reservation 5. Tamiami Trail (Bridge) Modifications 6. Modified Water Deliveries to ENP 7. C-111 South Dade (C-111 SD) 8. Indian River Lagoon - South (IRL-S) 9. Picayune Strand Restoration (PSRP) 10. Site 1 Impoundment 11. Melaleuca Eradication 12. C-111 Spreader Canal (C-111 SC) 13. Biscayne Bay Coastal Wetlands (BBCW) **FLORIDA** 14. Broward County Water Preserve Areas (BCWPA) BAY 15, C-43 West Basin Storage Reservoir 16. Central Everglades Planning Project (CEPP) 17. Loxahatchee River Watershed Restoration Project (LRWRP) 18. Lake Okeechobee Watershed Restoration Project (LOWRP) 19. Western Everglades Restoration Project (WERP)

#### EIS

### ENVIRONMENTAL IMPACT STATEMENT

#### ATLANTIC OCEAN OKEECHOBEE MEXICO BIG CYPRESS Active USACE Projects 1. Herbert Hoover Dike (HHD) BISCAYNE 2. Kissimmee River Restoration (KRR) Authorized Pre-2000 3. West Palm Beach Canal (C-51/STA-1E) Authorized 2007 4. Seminole Big Cypress Reservation 5. Tamiami Trail (Bridge) Modifications 6. Modified Water Deliveries to ENP 7. C-111 South Dade (C-111 SD) 8. Indian River Lagoon - South (IRL-S) Planning Study 9. Picayune Strand Restoration (PSRP) 10. Site 1 Impoundment 11. Melaleuca Eradication 12. C-111 Spreader Canal (C-111 SC) 13. Biscayne Bay Coastal Wetlands (BBCW) **FLORIDA** 14. Broward County Water Preserve Areas (BCWPA) BAY 15. C-43 West Basin Storage Reservoir 16. Central Everglades Planning Project (CEPP) 17. Loxahatchee River Watershed Restoration Project (LRWRP) 18. Lake Okeechobee Watershed Restoration Project (LOWRP) 19. Western Everglades Restoration Project (WERP)

#### **IDS**

### INTEGRATED DELIVERY SCHEDULE

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#### **T & I**

# TRANSPORTATION AND INFRASTRUCTURE COMMITTEE [HOUSE]

#### ATLANTIC OCEAN OKEECHOBEE Active USACE Projects 1. Herbert Hoover Dike (HHD) 2. Kissimmee River Restoration (KRR) **Authorized Pre-2000** 3. West Palm Beach Canal (C-51/STA-1E) Authorized 2007 4. Seminole Big Cypress Reservation 5. Tamiami Trail (Bridge) Modifications 6. Modified Water Deliveries to ENP 7. C-111 South Dade (C-111 SD) 8. Indian River Lagoon - South (IRL-S) 9. Picavune Strand Restoration (PSRP) 10. Site 1 Impoundment 11. Melaleuca Eradication 12. C-111 Spreader Canal (C-111 SC) 13. Biscayne Bay Coastal Wetlands (BBCW) **FLORIDA** 14. Broward County Water Preserve Areas (BCWPA) BAY 15. C-43 West Basin Storage Reservoir 16. Central Everglades Planning Project (CEPP) 17. Loxahatchee River Watershed Restoration Project (LRWRP) 18, Lake Okeechobee Watershed Restoration Project (LOWRP) 19. Western Everglades Restoration Project (WERP)

#### **EPW**

# ENVIRONMENT & PUBLIC WORKS COMMITTEE [SENATE]

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#### CISRERP

COMMITTEE ON SCIENTIFIC REVIEW OF EVERGLADES RESTORATION PROGRESS



#### WRDA

## WATER RESOURCE DEVELOPMENT ACT



#### **PACR**

### POST AUTHORIZATION CHANGE REPORT



#### **ASFWP**

ASSISTANT
SECRETARY FOR
FISH, WILDLIFE
AND PARKS
[DEPT OF INT]

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#### **PDASA**

# PRINCIPAL DEPUTY ASSISTANT SECRETARY OF THE ARMY

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#### SFERTF

#### SOUTH FLORIDA ECOSYSTEM RESTORATION TASK FORCE

### **FDEP FWCC FDACS BGATF SFWMD**

#### **State Agencies/Bodies**

- Florida Department of Environmental Protection
- Florida Department of Agriculture and Consumer Services
- Florida Fish and Wildlife Conservation Commission
- Blue Green Algae TaskForce
- South Florida Water Management District



#### **CEPP**

## CENTRAL EVERGLADES PLANNING PROJECT



#### EAA RESERVOIR

### EVERGLADES AGRICULTURAL AREA RESERVOIR



#### **BBCW**

### BISCAYNE BAY COASTAL WETLANDS

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#### **PSRP**

## PICAYUNE STRAND RESTORATION PROJECT



#### IRL-S

### INDIAN RIVER LAGOON SOUTH



#### LRWRP

# LOXAHATCHEE RIVER WATERSHED RESTORATION PROJECT



## LOWRP

# LAKE OKEECHOBEE WATERSHED RESTORATION PROJECT



## **C-111 SC**

## C-111 SPREADER CANAL WESTERN PROJECT

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## **TMDL**

## TOTAL MAXIMUM DAILY LOAD

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## MFL

### MINIMUM FLOW AND LEVEL



## WCA

## WATER CONSERVATION AREA



## STA

### STORMWATER TREATMENT AREA

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## **PSTA**

# PERIPHYTON BASED STORMWATER TREATMENT AREA

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## RASTA

# RESERVOIR ASSISTED STORMWATER TREATMENT AREA

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## WQBEL

## WATER QUALITY BASED EFFLUENT LIMIT

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## SAV

## SUBMERGED AQUATIC VEGETATION

#### ATLANTIC OCEAN OKEECHOBEE WEST MEXICO Active USACE Projects 1. Herbert Hoover Dike (HHD) BISCAYNE 2. Kissimmee River Restoration (KRR) Authorized Pre-2000 3. West Palm Beach Canal (C-51/STA-1E) Authorized 2007 4. Seminole Big Cypress Reservation 5. Tamiami Trail (Bridge) Modifications 6. Modified Water Deliveries to ENP 7. C-111 South Dade (C-111 SD) 8. Indian River Lagoon - South (IRL-S) Planning Study 9. Picayune Strand Restoration (PSRP) 10. Site 1 Impoundment 11. Melaleuca Eradication 12. C-111 Spreader Canal (C-111 SC) 13. Biscayne Bay Coastal Wetlands (BBCW) **FLORIDA** 14. Broward County Water Preserve Areas (BCWPA) BAY 15. C-43 West Basin Storage Reservoir 16. Central Everglades Planning Project (CEPP) 17. Loxahatchee River Watershed Restoration Project (LRWRP) 18. Lake Okeechobee Watershed Restoration Project (LOWRP) 19. Western Everglades Restoration Project (WERP)

## EAV

## EMERGENT AQUATIC VEGETATION

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## HAB

## HARMFUL ALGAL BLOOM



## PM

## PERFORMANCE MEASURE



## AM

## ADAPTIVE MANAGEMENT



## HIS

## HABITAT SUITABILITY INDEX



### CEM

## CONCEPTUAL ECOSYSTEM MODEL

### Acronym Best Practices [create acronym]

- Don't use an acronym or abbreviate if you don't have to
- Don't assume the audience knows what an acronym means
- Define the acronym when first using it
- Minimize communications using acronyms for new team members, the public and decision makers
- Minimize acronyms in PowerPoint presentations
- Be accurate and consistent when using acronyms LOWRP isn't LOWPP; CERP isn't CEPP
- Don't be afraid to ask what an acronym means!

## THANK YOU!