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This activity will prepare participants for an interactive activity later in the meeting. This may speed up the role call or take the same amount of time. In previous meetings role call required ~30 minutes.

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This activity will prepare participants for an interactive activity later in the meeting. This may speed up the role call or take the same amount of time. In previous meetings role call required ~30 minutes.





This slide shows our starting point in plan formulation. When we use this slide in the AMM it will set stage to show what we've done in 90 days.



#### Brief overview of WERP (20 min)

Main point of this slide: CERP background and context.



Lake O / Cal / C139 / STA56 / N Feeder - Focus on potential Lake connection routes and treatment

West Feeder / Seminole Tribal Area - Focus on treatment of west water onto Tribe and distribution of water (e.g. critical project improvements, natural area rehydration, etc...)

**Downstream of S190 / Miccosukee Tribal Area / Triangle** - Focus on preventing groundwater drainage, potential connectivity of natural lands

Big Cypress National Preserve - Focus on levee degrades, canal backfill, etc...



Kelly present. Ask audience to write "hello" in chat room at this slide.



Kelly present.

#### We've received the following important notes from team members:

- They have asked that we determine if Lake water is even <u>needed</u> in the Western Basins before we decide to add Lake water.
- They have pointed out that <u>water quality (WQ)</u> treatment for existing water is already a major challenge, without adding the challenge of cleaning new water from Lake O. We need to determine how and where WQ treatment will occur for existing WQ issues before deciding to add more water from Lake O that would require treatment.
- Team members support relieving pressure on the estuaries by taking some water from Lake O, to the extent that the Western Basins needs the water and can treat the water to applicable water quality standards.

#### Suggestions from team members for refining this conceptual alternative:

Look at existing water quality problems in the Western Basins and determine land areas needed to treat this water. This will provide a reality-check regarding brining in Lake O water that would need more treatment. Examples:

- North Feeder Canal at Seminole northern boundary (228 ppb TP)
- West Feeder Weir (47 ppb TP)
- USSO (139 ppb TP)
- S-190 (108 ppb TP)
- S-140 (74 ppb TP)

WERP PLANNING ALTERNATIVE CONCEPT: "FULL DEGRADE, <u>WITH</u> LAKE CONNECTION" Region 1 configuration includes new water from Lake O.



### **Potential Lake Okeechobee Connections**

- Industrial canal
   Miami Canal L-1E
   Miami Canal L-26
- 4 Miami Canal STA5
- 5 20-mile canal6 Flaghole canal
- 7 C-43 Canal 3
- 43 North Feeder Extension

# = Preferred routes to work together.

#### Lake Okeechobee Water Treatment options

- 44 STA 5/6 ext
- 0 North Feeder

### Storage and more routing options

- ASR
   42 Deer Fence
   L2
  - L3

### WERP PLANNING ALTERNATIVE CONCEPT: "FULL DEGRADE, <u>WITHOUT</u> LAKE CONNECTION"

Region 1 configuration includes new water from Lake O.



Why are we talking about not bringing in water from Lake O?

 To show logical and unbiased consideration of a wide array of planning options, we need to check whether we can accomplish restoration in the western basins without the added costs of bringing in water from Lake O. They answer may be "no, we cannot accomplish restoration without Lake water". If so, exploring this option will provide us the reasons why the answer is no.



North Feeder WQ Treatment

WERP PLANNING ALTERNATIVE CONCEPT: "FULL **DEGRADE**" Region 2 configuration includes the following measures...



Restore water quality with treatment facilities (STA or FEB):



43

Inflow water treatment



North Feeder treatment

### Restore hydrology in Reservation and to Big Cypress National Preserve (BCNP):

- **37** Wingate Mill Canal Cypress Strand weir
  - 13 West Weir spillway
- 16 West Feeder pumps & spreader canal

- 40 West Feeder spillway Gravity flows – – – Spreader canal
- XXX Backfill/degrade

## WERP PLANNING ALTERNATIVE CONCEPT: "FULL **DEGRADE**" Region 3 configuration includes the following measures...



### **Restore hydrology:**

- Modify S-140 operations
- **X** Fill in L28n canal & remove levee, south of I-75
- **X** Remove L28i extension (except for check station)
- S190 pump & tailwater weir
- For levees retained for access, include breaks on both sides in combination with step down weirs
- Pump water along I-75 canal if needed

### **Restore water quality:**

- Enhanced wetland restoration
  - (L-28 WQ treatment features are proposed upstream of this map)

### **Restore habitat:**

- Restore native wetland vegetation
- Clear vegetation from conveyance under I-75

### Other important considerations:



Big Cypress Sanctuary community, uses L28i for access. 26°13'39"N 80°55'40"W

WERP PLANNING ALTERNATIVE CONCEPT: "FULL **DEGRADE**" Region 4 configuration includes the following measures...



#### **Restore hydrology:**

- **X X** Degrade levee/backfill canal (MM#62)
  - Add conveyance
  - Improve/add culverts
- Pump water NW along US41 if needed for CSSS-A.

### Other important considerations:

Cape Sable Seaside Sparrow subpopulation A is south of the S-343 and S-12 structures.



Matt present?

WERP ALTERNATIVE CONCEPT: **"SEND REGULATORY RELEASES SOUTH FOR RESTORATION"** Region 1 configuration emphasizes 2 connections to Lake O.



### **Potential Lake Okeechobee Connections**

= Preferred routes to work

together.

- Industrial canal
   Miami Canal L-1E
   Miami Canal L-26
- 4 Miami Canal STA5
- 5 20-mile canal 6 Flaghole canal
- 7 C-43 Canal 3
- 43 North Feeder Extension

### Lake Okeechobee Water Treatment options

- 44 STA 5/6 ext
  - North Feeder

### Storage and more routing options

- ASR
   42 Deer Fence
   L2
  - L3

### WERPALTERNATIVE CONCEPT: "SEND REGULATORY RELEASES SOUTH FOR RESTORATION"

Region 2 configuration includes the following measures...



Restore water quality with treatment facilities (STA or FEB):



43

Inflow water treatment



North Feeder treatment

### Restore hydrology in Reservation and to Big Cypress National Preserve (BCNP):

- 37 Wingate Mill Canal Cypress Strand weir
- **13** West Weir spillway
- **16** West Feeder pumps & spreader canal

ASR 
Aquifer Storage and Recovery

40 West Feeder spillway
Gravity flows
Spreader canal

### WERPALTERNATIVE CONCEPT: "SEND REGULATORY RELEASES SOUTH FOR RESTORATION"

### Region 3 configuration includes the following measures...



### **Restore hydrology:**

- Modify S-140 operations
- X Fill in L28n canal & remove levee, south of I-75
- **X** Remove L28i extension (except for check station)
- S190 operations
- Levee breaks in combination with step down weirs (#17)
- Water from I-75 canal into NW triangle. Would need to address WQ!

### **Restore water quality:**

- Enhanced wetland restoration
  - (L-28 WQ treatment features are proposed upstream of this map)

### Active habitat reset:

- Restore native wetland vegetation
- Clear vegetation from conveyance under I75

### Other important considerations:



Keep levee access Big Cypress Sanctuary community, uses L28i for access. 26°13'39"N 80°55'40"W

Cultural resources considerations.

### WERPALTERNATIVE CONCEPT: "SEND REGULATORY RELEASES SOUTH FOR RESTORATION"

Region 4 configuration includes the following measures...



### **Restore hydrology:**

- **X X** Degrade levee/backfill tieback.
- **B B** Only backfill canal south of S-344.
- Add conveyance
- Improve/add culverts

### **Other important considerations:**

Cape Sable Seaside Sparrow subpopulation A is south of the S-343 and S-12 structures.



Eric Flaig present?

Region 1 configuration emphasizes 2 connections to Lake O.



### Potential Lake Okeechobee Connections

- Industrial canal 1
- 2 Miami Canal - L-1E
- 3 Miami Canal - L-26
- 4 Miami Canal - STA5



- C-43 Canal 3 7
- 43 North Feeder Extension

### = Preferred routes to work together.

### Lake Okeechobee Water Treatment options

- STA 5/6 ext
- North Feeder

### Storage and more routing options

- ASR  $\times$ 42 - Deer Fence - L2

  - L3

Region 2 configuration includes the following measures...



Restore water quality with treatment facilities (STA or FEB):



43

Inflow water treatment



West Feeder treatment

North Feeder treatment

### Restore hydrology in Reservation and to Big Cypress National Preserve (BCNP):

- 37 Wingate Mill Canal Cypress Strand outlet/weir
- **13** West Weir spillway
- **16** West Feeder pumps & spreader canal

### Active inline weir

40 West Feeder spillway Gravity flows

\_\_\_ Spreader canal

Region 3 configuration includes the following measures...



### Restore hydrology

- Modify S-140 operations
- L28n levee breaks south of I-75
- ← S190 pump & operations
- Levee breaks and step down weirs
- X Remove L28i extension (except for check station)
- ← Pump water into I-75 canal

### **Restore water quality:**

Enhanced wetland restoration
 (L-28 WQ treatment features are proposed upstream of this map)

### Reset habitat:

- Restore native wetland vegetation
- Clear vegetation from conveyance under I-75

### Other important considerations:



Region 4 configuration includes the following measures...



### **Restore hydrology:**

- **X X** Degrade levee/backfill canal (MM#62)
  - Add conveyance
  - Existing culverts

← Pump to send water NW along US-41, away from CSSS-A

#### **Other important considerations:**

Cape Sable Seaside Sparrow subpopulation A is south of the S-343 and S-12 structures.



Martha N. present

### WERP PLANNING ALTERNATIVE CONCEPT: **"PASSIVE MANAGEMENT"** Region 1 configuration includes no new water from Lake O.



Why are we talking about not bringing in water from Lake O?

 To show logical and unbiased consideration of a wide array of planning options, we need to check whether we can accomplish restoration in the western basins without the added costs of bringing in water from Lake O. They answer may be "no, we cannot accomplish restoration without Lake water". If so, exploring this option will provide us the reasons why the answer is no.



#### North Feeder WQ Treatment

# WERP PLANNING ALTERNATIVE CONCEPT: **"PASSIVE MANAGEMENT"** Region 2 configuration includes the following measures...



Restore water quality with treatment facilities (STA or FEB):



43

Inflow water treatment



North Feeder treatment

### Restore hydrology in Reservation and to Big Cypress National Preserve (BCNP):

**37** Wingate Mill Canal Cypress Strand lateral weir

Gravity flows

- 13 West Weir spillway
- 16 West Feeder spreader canal, without pumps
  - Passive inline weir east of #37

# WERP PLANNING ALTERNATIVE CONCEPT: **"PASSIVE MANAGEMENT"** Region 3 configuration includes the following measures...



### **Restore hydrology:**

- Modify S-140 operations
- X Fill in L28n canal & remove levee, south of I-75
- **X** Remove L28i extension except for check station
- S190 NO PUMP (MAY NEED IT WITH ACTIVE MNGT in MAP 2)
- For levees retained for access, include breaks on both sides in combination with step down weirs
- Spreader canal for S190 waters (need pump?)
- Water from I-75 canal into NW Triangle (need pump, or use S140 pump?). Water must meet WQ standards!

### **Restore water quality:**

Enhanced wetland restoration (1-28 WO treatment features are proposed

(L-28 WQ treatment features are proposed upstream of this map)

### Other important considerations:

Keep levee access Big Cypress Sanctuary community, uses L28i for access. 26°13'39"N 80°55'40"W

Cultural resources considerations.

WERP PLANNING ALTERNATIVE CONCEPT: **"PASSIVE MANAGEMENT"** Region 4 configuration includes the following measures...



#### **Restore hydrology:**

- **X X** Degrade levee/backfill canal (MM#62)
  - Add conveyance
  - Improve/add culverts
  - S-343 used as Divide Structure if needed for CSSS-A.

### Other important considerations:

Cape Sable Seaside Sparrow subpopulation A is south of the S-343 and S-12 structures.



Kelly present.

## WERP PLANNING ALTERNATIVE CONCEPT: **"ADDITIONAL GRAVITY FLOW"** Region 1 configuration emphasizes 2 connections to Lake O.

6

7



### **Potential Lake Okeechobee Connections**

Industrial canal
 Miami Canal - L-1E
 Miami Canal - L-26
 Miami Canal - STA5
 20-mile canal

Flaghole canal

C-43 – Canal 3

43 North Feeder Extension



= Preferred routes to work together.

#### Lake Okeechobee Water Treatment options

44 STA 5/6 ext

North Feeder

#### Storage and more routing options

- ASR
   42 Deer Fence
   L2
  - L3
# WERP PLANNING ALTERNATIVE CONCEPT: "ADDITIONAL GRAVITY FLOW"

Region 2 configuration includes the following measures...



**Restore water quality with** treatment facilities (STA or FEB):



43

Inflow water treatment



North Feeder treatment

### **Restore hydrology in Reservation and to Big Cypress National Preserve (BCNP):**

- Wingate Mill Canal Cypress Strand weir 37
  - West Weir spillway
- West Feeder pumps & spreader canal 16



Gravity flows Spreader canal XXX Backfill/degrade

# WERP PLANNING ALTERNATIVE CONCEPT: **"ADDITIONAL GRAVITY FLOW"** Region 3 configuration includes the following measures...



## **Restore hydrology**

- Modify S-140 operations
- L28n levee breaks south of I-75
- S190 pump & tailwater weir operations
- Levee breaks and step down weirs
- X Remove L28i extension (except for check station)

### **Restore water quality:**

Enhanced wetland restoration (L-28 WQ treatment features are proposed upstream of this map)

## **Reset habitat:**

- Restore native wetland vegetation
- Clear vegetation from conveyance under I-75

# Other important considerations:



Big Cypress Sanctuary community, uses L28i for access. 26°13'39"N 80°55'40"W

# WERP PLANNING ALTERNATIVE CONCEPT: "ADDITIONAL GRAVITY FLOW"

Region 4 configuration includes the following measures...



### **Restore hydrology:**

- **X X** Degrade levee/backfill canal (MM#62)
  - Add conveyance
  - Improve/add culverts

#### Other important considerations:

Cape Sable Seaside Sparrow subpopulation A is south of the S-343 and S-12 structures.



Tim Brown present?

# WERP PLANNING ALTERNATIVE CONCEPT: "MINIMAL RSTORATION ACTIONS" Region 1 configuration includes no new water from Lake O.



Why are we talking about not bringing in water from Lake O?

 To show logical and unbiased consideration of a wide array of planning options, we need to check whether we can accomplish restoration in the western basins without the added costs of bringing in water from Lake O. They answer may be "no, we cannot accomplish restoration without Lake water". If so, exploring this option will provide us the reasons why the answer is no.



North Feeder WQ Treatment

# WERP PLANNING ALTERNATIVE CONCEPT: **"MINIMAL** RESTORATION **ACTIONS"** Region 2 configuration includes the following measures...



Restore water quality with treatment facilities (STA or FEB):



43

Inflow water treatment

West Feeder treatment

North Feeder treatment

#### Restore hydrology in Reservation and to Big Cypress National Preserve (BCNP):

- 13 Raise West weir and make this a bleeder weir
- ---- Spreader canal to rehydrate Natural area. May need SMALL pumps or weirs to move water to the spreader. Gravity fed would be preferred if functional.
- Lateral weirs.

# WERP PLANNING ALTERNATIVE CONCEPT: "MINIMAL RESTORATION ACTIONS"

Region 3 configuration includes the following measures...



### Restore hydrology

- Modify S-140 operations
- L28n levee breaks south of I-75 (see CEPP model outputs here\*)
- S190 operations/ pump only if needed (model 1<sup>st</sup> without)
- 🗪 Step down weirs
- X Remove L28i extension (except for check station)

### **Restore water quality:**

- Enhanced wetland restoration
  - (L-28 WQ treatment features are proposed upstream of this map)(consider this a stand-alone item for any alt.)

## **Reset habitat:**

- Clear vegetation from conveyance under I-75

# Other important considerations:



Big Cypress Sanctuary community, uses L28i for access. 26°13'39"N 80°55'40"W

# WERP PLANNING ALTERNATIVE CONCEPT: "MINIMAL RESTORATION ACTIONS"

Region 4 configuration includes the following measures...



#### **Restore hydrology:**

- **X X** Degrade levee/backfill tieback to 344. Keep levees along L28s.
  - Add conveyance
  - Existing culverts. May" need additional conveyance.

#### Other important considerations:

Cape Sable Seaside Sparrow subpopulation A (CSSS-A) is south of the S-343 and S-12 structures.

Will need to determine gate schedule and whether measures are needed to prevent flows from impacting CSSS-A.



5 minutes for this activity. Play music for thinking time to alleviate awkward silence.

Reason for asking if any can be combined: This would be an easy way to reduce # of alternatives.



Kelly present.





Purpose of agenda item: To show PDT we've looked at the management measures that were proposed (reference the maps and spreadsheet). Show MMs that appeared to not be needed in the alternatives. **Charge question: Are these ok to screen or did we miss something?** 

ACTIVITY #3: SCREENING MANAGEMENT MEASURES					
About to be screened out	Yes, OK to screen	No, not ok to screen	No opinion/ Don't have expertise here		
Canal connections to Lake Okeechobee, other than those selected					
Raise carib grass in STAs to enhance performance					
Expand STA 5 into					

neighboring lands

ACTIVITY #3: SCREENING MANAGEMENT MEASURES					
About to be screened out	Yes, OK to screen	No, not ok to screen	No opinion/ Don't have expertise here		
Remove West Weir					
Flowage easement or flowway between L-28i & L-28 along south boundary of Seminole Reservation					
C-139 Annex STA					
Water storage feature in C-139 basin					
Modify current and future NRCS easements for improved water quality treatment					

ACTIVITY #3: SCREENING MANAGEMENT MEASURES				
About to be screened out	Yes, OK to screen	No, not ok to screen	No opinion/ Don't have expertise here	
Increase number & size of I-75 culverts (increase sheet flow from OK Slough); operable structures to maintain upstream hydration				
Breaks in L-28s levee north of S-344 (Big Cypress Nat Preserve)				
Pump station near 50-mile bend to hydrate Roberts Lake Strand (Big Cypress Nat Preserve)				

Purpose of agenda item: To show PDT how we've looked at the management measures that were proposed (reference the maps and spreadsheet). Show MMs that appeared to not be needed in the alternatives... Charge question: Are these ok to screen or did we miss something?

SUB-TEAMS	Sub-Teams Working On	Deliverables
MEETING WEEKLY	- PLACING WATER QUALITY TREATMENT	<ul> <li>Conceptual Alternatives</li> <li>H&amp;H model and performance measures</li> </ul>
H&H/ENGINEERING • M 1PM-2:30PM	- SCREENING ALTERNATIVES	<ul><li>Tracking screening</li><li>Project Management Plan</li></ul>
PLAN FORM. • T 1PM-4:30PM	- DEFINING MODELING CONDITIONS	<ul> <li>Report Synopsis</li> <li>Decision Management Plan</li> <li>Risk Register</li> </ul>
WATER QUALITY • TH 10AM - 12:00	- GATHERING DATA, CONSTRUCTING MODELS	<ul> <li>Decision Log</li> <li>Study Issue Check List</li> <li>Study Review Plan</li> </ul>
ENVIRONMENTAL • TH 1PM-3:00PM	- CREATING ECOLOGICAL PERFORMANCE MEASURES	- Modeling Work Plan

#### TIM:

We are working toward our first study milestone, "The Alternatives Milestone" tentatively scheduled for 16 NOV. The Alternatives Milestone is where we obtain USACE Vertical Team concurrence on our Array of Alternatives. To ensure success by our deadline, intense weekly and monthly meetings are scheduled thru November.

#### WHAT ARE WE WORKING ON?

We are working on the activities and deliverables listed below to ensure we reach the alternatives milestone by 16 NOV. We are writing as we go.

- Determine Existing Conditions Baseline & Future Without Project Conditions
- Refine Management Measures & screening methodology
- Choose plan formulation strategy
- Develop & Screen Final Array of Alternatives

#### DELIVERABLES:

- Project Management Plan
- Report Synopsis

- Decision Management Plan
- Risk Register
- Decision Log
- Project Study Issue Check List
- Peer Review Plan
- Modeling Work Plan

