

CENTRAL EVERGLADES PLANNING PROJECT

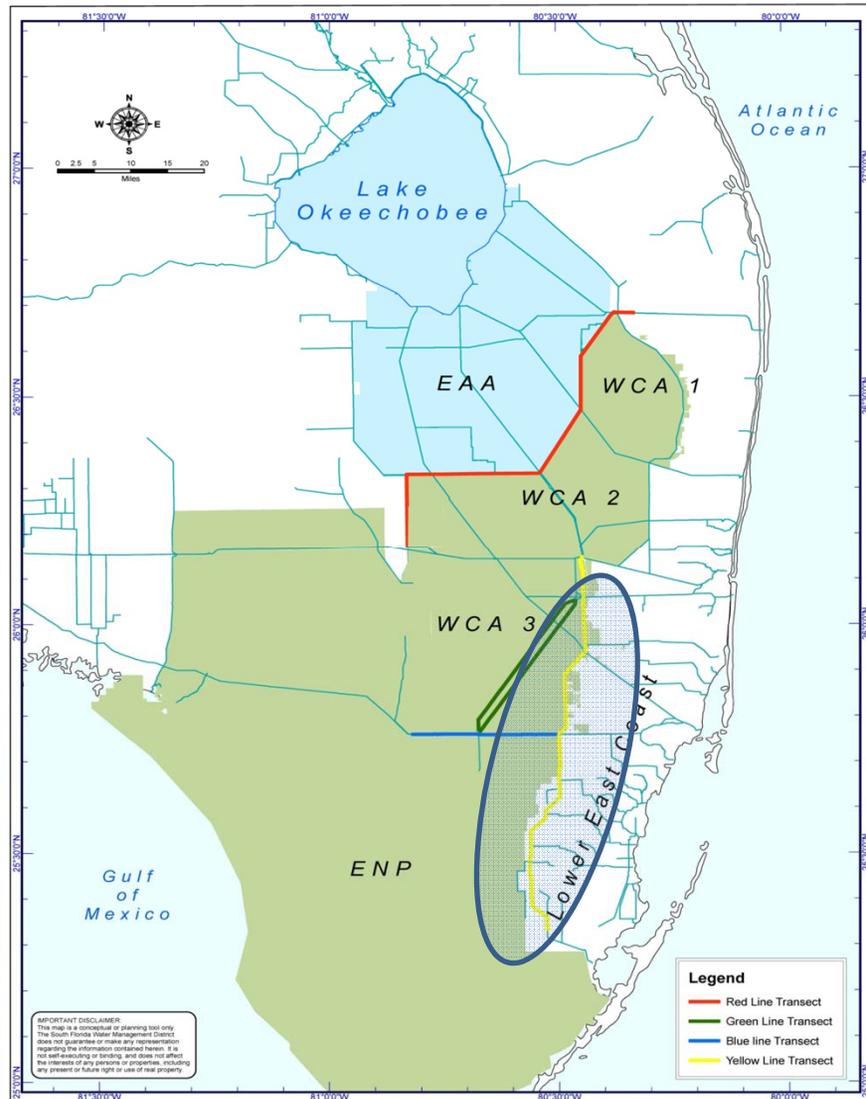


RSMGL Yellowline Screening

PRESENTED BY
CEPP Modeling Team

November 16, 2012

SPATIAL PERSPECTIVE



REDLINE –Everglades Agricultural Area (EAA) and the WCA 3A
(L-4, L-5 and L-6 levees and canals)

GREENLINE – WCA 3A and WCA 3B
(L-67A and C levees and associated canals)

BLUELINE - WCA 3A/3B and Everglades National Park (ENP)
(Tamiami Trail roadway and L-29)

YELLOWLINE –WCA 3A/3B and ENP to the lower east coast
(east coast protective levee system, the L-30 and L-31N)

RSMGL Yellowline Screening Process

- Round 1 – Initial testing of RSMGL tool and examination of S356 / G211 / S331 operations (completed 11/5/12)
- Round 2 – Examine trends of various infrastructure/ operational changes
- Next steps – Define features for final array based on several factors, including, but not limited to modeling results; continue refinement of RSMGL tool and assumptions.

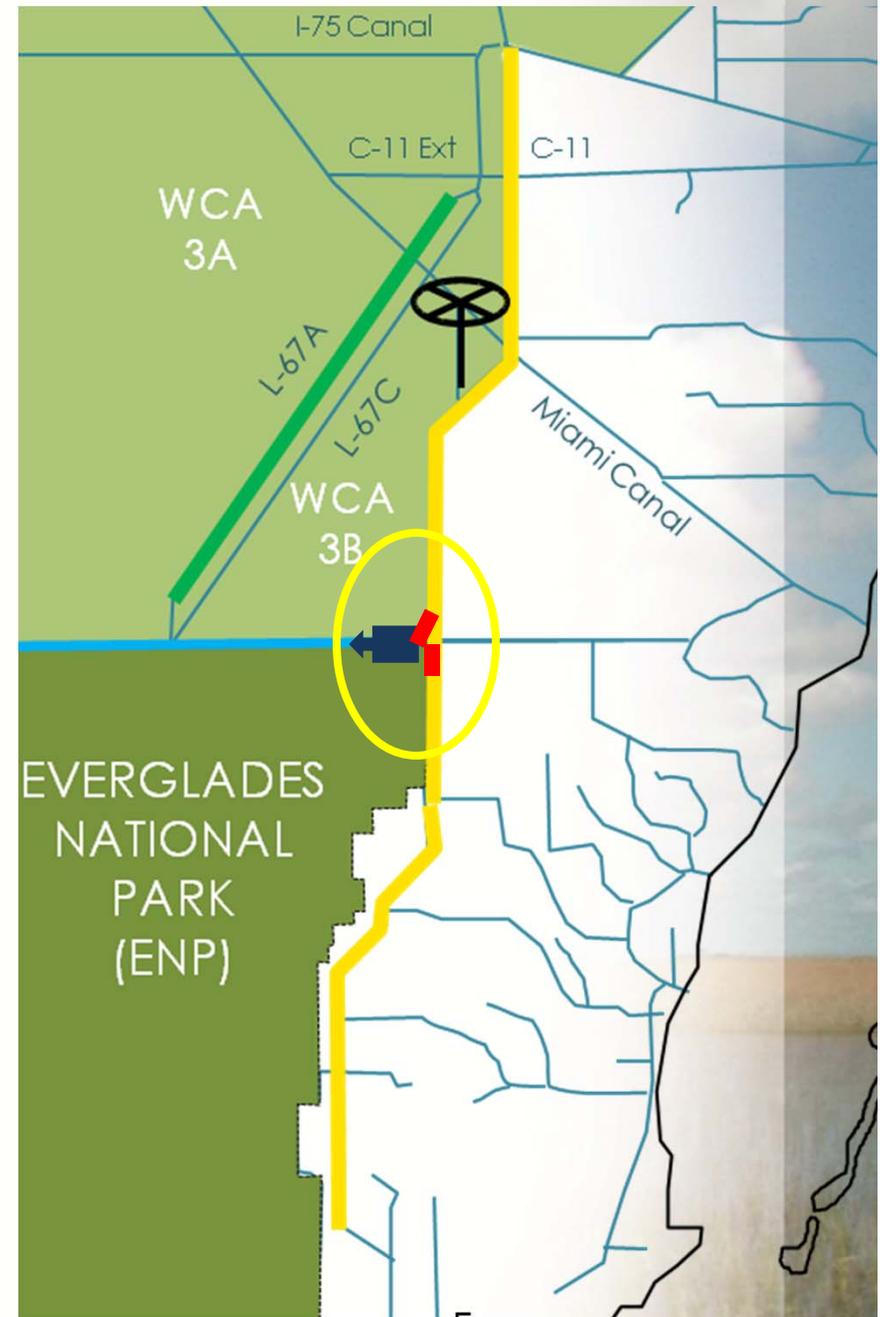
RSMGL Round 2

Yellowline Sensitivity Runs

- YL0 Revised S-356, S331 and S357 operations based on feedback from Round1 Yellowline
- YL1 Seepage Barrier S-335 to S-334
- YL2 Seepage Barrier Pennsuco to G-211
- YL3 Convey Discharges to Coastal Canals + Utilize NDA and SDA more effectively
- YL4 Distributed pump scenario
- YL5 Hydraulic Ridge + Pennsuco Pump

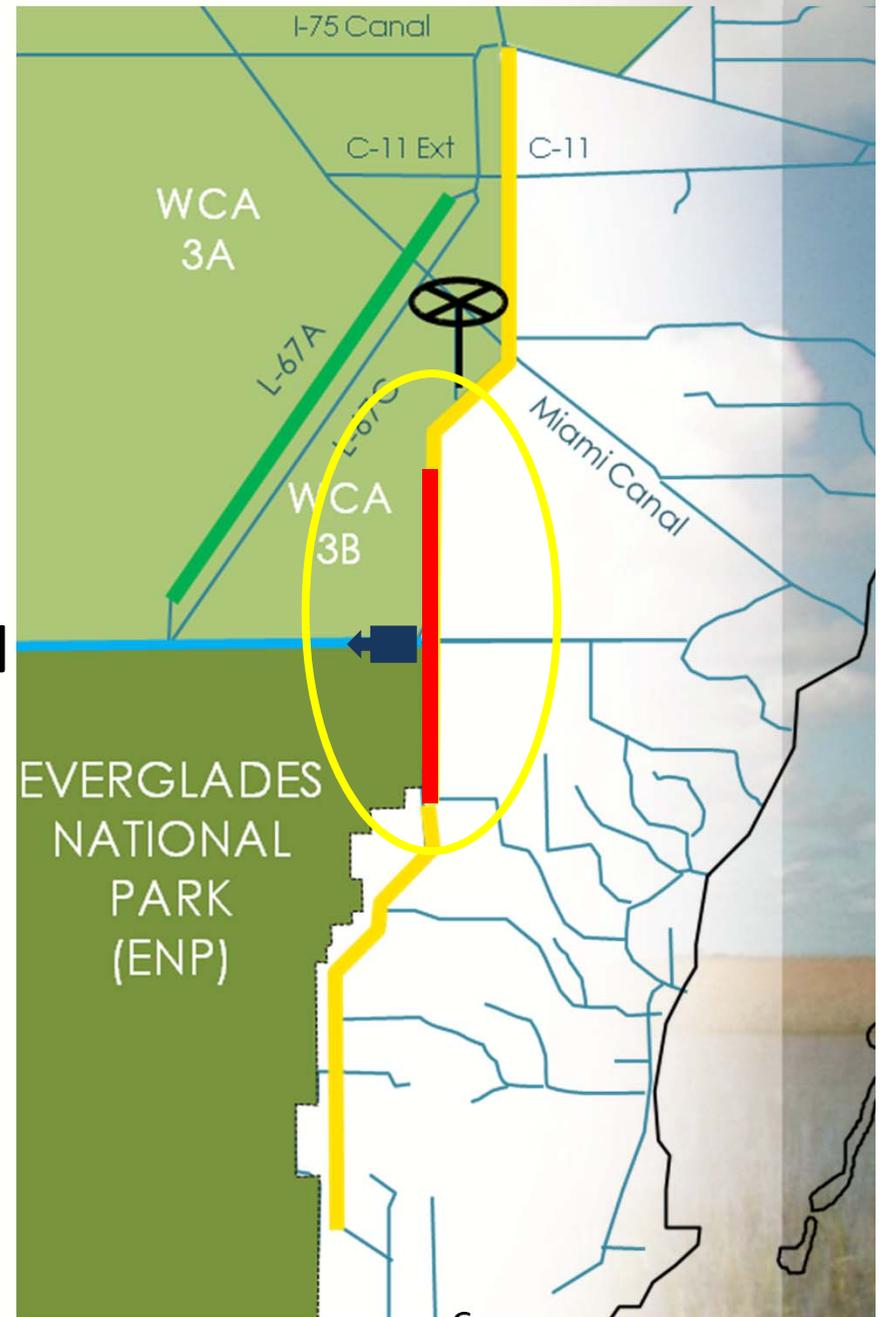
Seepage Management: YL1

- Fully penetrating seepage barrier S335 to S334
- Extend barrier a short distance south of Tamiami Trail (1 RSM cell)
- S-356@1000 cfs



Seepage Management: YL2

- Underground seepage barrier ~35 ft
- Locate along L-30 and L-31N to 8 ½ sq mile
- S-356@1000 cfs



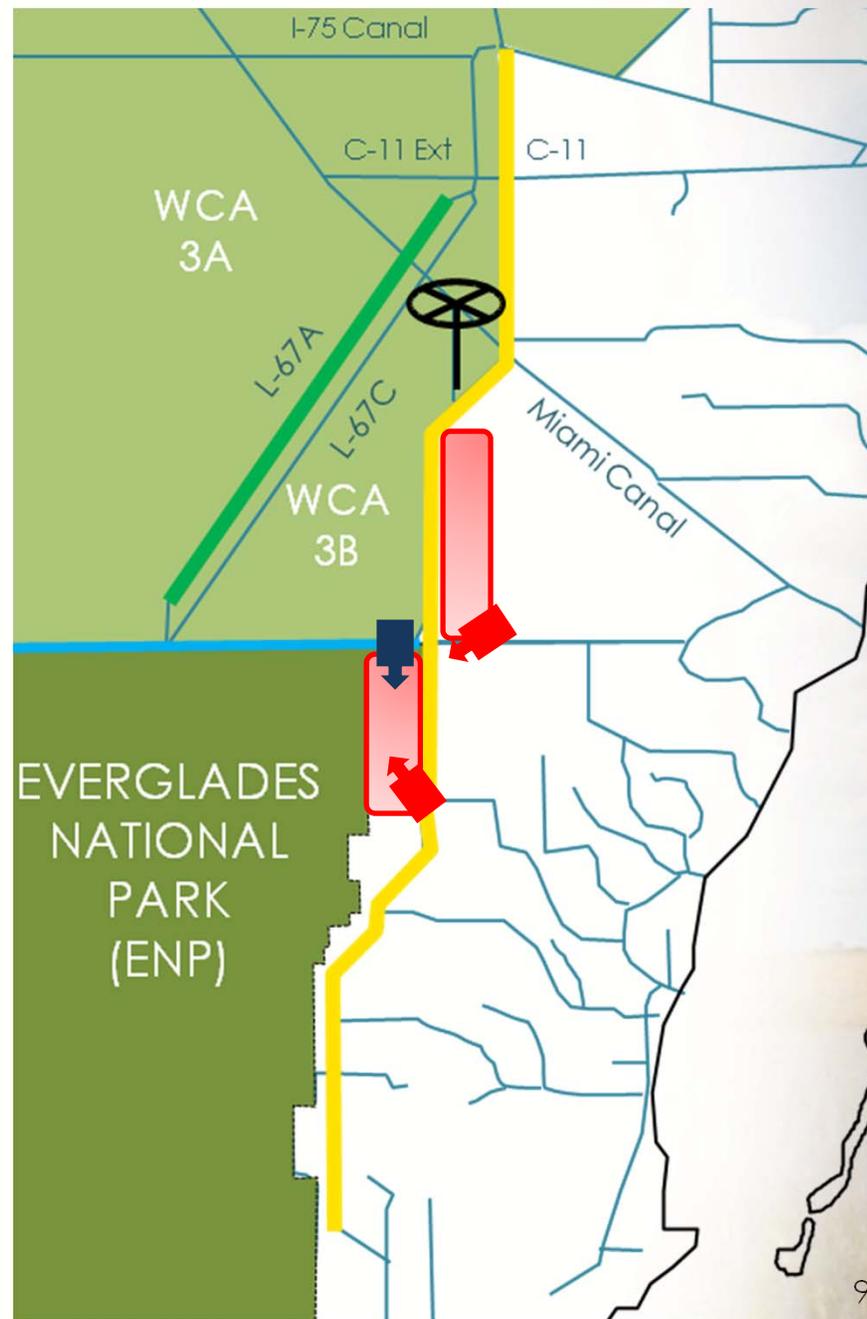
Seepage Management: YL4

- Distributed pumping:
Series of 100 cfs pumps
along L-30, L-31N
- S-356@500 cfs



Seepage Management: YL5

- Hydraulic Ridge + Pennsuco Pump
- ~ 1/2 mile wide impoundment area in ENP fed by S356 @500 cfs and new pump @500 cfs
- Allow Pennsuco to be higher, but maintain an improved DBLEV canal (add pump near south end of Pennsuco)



RSMGL Round 2

Yellowline Performance Measure Sets

PM1 - ECB, FWO, YL0, YL1 & YL2

PM2 - ECB, FWO, YL3, YL4 & YL5

Note: ECB = Existing Condition Baseline
FWO = 2050 Future Without CEPP

RSMGL Round 2 Yellowline results:

Available on CERPzone DASR at:

P:\IMC_Final_Modeling_Results\PROJ 51 - Central Everglades Planning\Analysis_Phase\2PlanFormulation\3ConveyanceSee page\Screening\yellowline\rsmgl_sens_111312

Available on ftp at:

[ftp.sfwmd.gov/pub/wwilcox/Yellowline](ftp://ftp.sfwmd.gov/pub/wwilcox/Yellowline)



QUESTIONS?