Update on STA-1 East

Paul J. DuBowy, Ph.D.

CESAJ-PD-ES

paul.j.dubowy@usace.army.mil



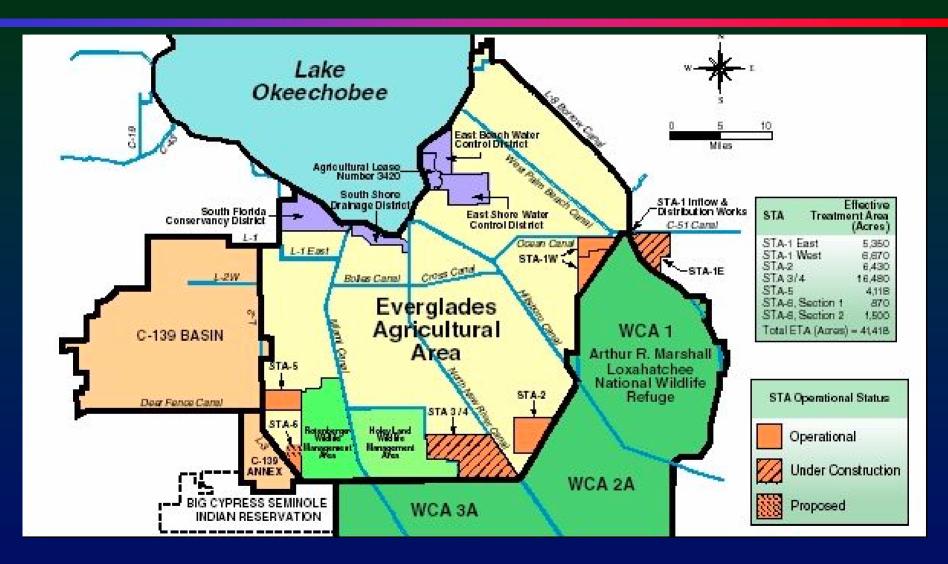


Background

• Facility designed to reduce long-term flow-weighted average concentrations of total phosphorous in runoff from C-51 west drainage basin and part of runoff from Structure 5A basin (northwest of C-51)











Construction

- Construction substantially complete
- Additional work on levees
 - Rock top on 28 miles of levees
 - Maintenance/road integrity
 - Completion mid-October
- Security on Pump Stations
 - Fencing/Cameras





Construction

• Grading?

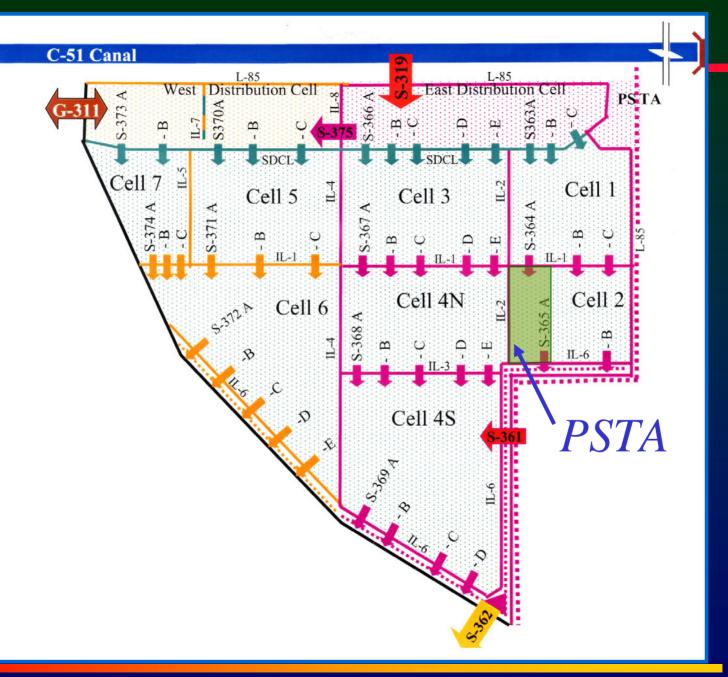
- Cell 7—elevation lower than planned; however elevation of Cell 6 also lower, so difference is not as great as appears. Also, as Cell 6 is wet it would be difficult to get machinery in to fix

Three options:

- Operate STA as is and assess functionality of system before fixing if needed
- Pump dredged material into Cell 7 to raise elevation
- Increase elevation of internal berm in Cell 6 and tie into existing levees to separate flows from Cells 5 and 7







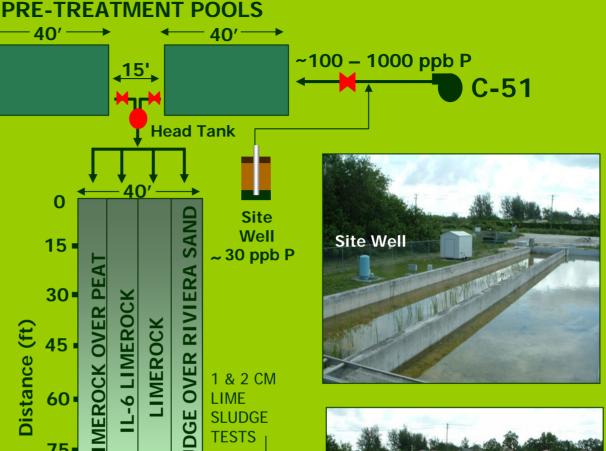




PSTA Water **Flying Cow Hyacinth Facility**







SLUDGE TESTS

Ditch

LIME

75

90

100-



Permits

- FL DEP has acknowledged receipt of application for permit to construct, operate and maintain STA1-E from SFWMD
- Application deemed complete as of 29 July 04
- DEP must take final action on application within 90 days from completion date
- Notice of Application will be published by 6 September





Turnover to State

- Late September/October
 - Pumps and Flow-through Cells
 - Cells 1 and 2 reserved for PSTA





Downstream Effects?

- Berm L-40
 - Short (1000 ft) berm in vicinity of pump station to direct water south and away from LoxNWR
- Dredging L-40 (1 mile)
 - Remove sediments and P that potentially could be mobilized by increased flows
- Modify CERP or C-51 (future)





