Projects Update

Quarterly Meeting of the Technical Oversight Committee

May 22, 2007

Jeff Kivett, P.E.
South Florida Water Management District
EAA Reservoir A-1

- Construction is underway
- ~$250 Million under contract

Everglades Protection Area Tributary Basins
Long-Term Plan for Achieving Water Quality Goals
EAA Reservoir A-1

Seepage Canal – Phase 1 Construction

Everglades Protection Area Tributary Basins
Long-Term Plan for Achieving Water Quality Goals
Accomplishments to date:
- Mobilization and 3 miles initial seepage canal 95% completed (GMP 1)
- Commenced Rock Mining in preparation of aggregate production (GMP 2)
- Commenced remaining work on seepage canal (GMP 3)
- Initiated procurement process of pump equipment

What’s next:
- Initiate negotiations for embankment construction (GMP 4)
- Pre-purchase pumping equipment-initiated construction plans

Challenges
- 60 Day notice letter from NRDC – Challenging NEPA compliance of 404 permit
**Project Location**

Accomplishments to date:
- Finalized Draft BODR
- Progressing through Technical Review

What’s next:
- Preliminary Design
- Estimated Construction Completion - 2010/2011

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**Everglades Protection Area Tributary Basins**
**Long-Term Plan for Achieving Water Quality Goals**
Compartment B STAs

Purpose: The development of additional Stormwater Treatment Area (STA) to further improve the quality of water discharging to the Everglades Protection Area (EPA) by assisting with the redistribution of flows and loads to the STA system.

Completed
- Phase 1 – Initial Expansion
- STA-2 Cell 4 (2,000 Acres)

Under Design
- Phase 2 - Build-out
- Compartment B Build-Out (7,500 Acres)
Compartment B
STA-2 Cell 4

- Design:
  - April 2005 – Oct 2005

- Construction Start:
  - Jan 2006

- Flow Capable:
  - Nov 11, 2006

- Final Completion:
  - July 2007

- Construction Contract:
  - $ 18.7 Million
Compartment B – Phase 2
Compartment B Build-out

Accomplishments to date:
- Completed preliminary survey work (topographic & boundary)
- Completed preliminary geotechnical data collection
- Completed Draft BODR

What’s next:
- Complete Final BODR
- Initiate Preliminary Design-Civil Works
- Initiate Preliminary Design-Pump Stations

Construction Completion
- Civil Works 2010
- Pump Stations 2011
Compartment C STAs

Purpose: The development of additional Stormwater Treatment Area (STA) to further improve the quality of water discharging to the Everglades Protection Area (EPA) by assisting with the redistribution of flows and loads to the STA system.

Completed
- Phase 1 – Initial Expansion
  - STA-5 Flow-way 3 (2,500 Acres)
  - STA-6 Section 2 (1,400 Acres)

Under Design
- Phase 2 - Build-out
  - Compartment C Build-Out (6,400 Acres)
Compartment C – Phase 1
STA-5 Flow-way 3

• Design:
  • Feb 2005 – Oct 2005

• Construction Start:
  • Jan 2006

• Flow Capable:
  • Nov 21, 2006

• Final Completion:
  • May 2007

• Construction Contract:
  • $ 12.9 Million
Compartment C – Phase 1
STA-5 Flow-way 3

Everglades Protection Area Tributary Basins
Long-Term Plan for Achieving Water Quality Goals
STA-6 Section 2

Design:
• Jan 2005 – Dec 2005

• Construction Start:
  • Feb 2006

• Flow Capable:
  • Dec 11, 2006

• Final Completion:
  • July 2007

• Construction Contract:
  • $ 23.4 Million

Everglades Protection Area Tributary Basins
Long-Term Plan for Achieving Water Quality Goals
Compartment C – Phase 2
Compartment C Build-out

Accomplishments to date:
- Completed preliminary survey work (topographic & boundary)
- Completed preliminary geotechnical data collection
- Completed Compartment C Watershed Hydraulic Study
- Performing Basis of Design Report
  - Site investigations
  - Hydrologic & hydraulic analysis
  - Project layout & evaluation of alternatives
  - Conceptual project features design
  - Conceptual level opinion of probable cost

What’s next:
- Complete BODR
- Initiate Preliminary Design-Civil Works
- Initiate Preliminary Design-Pump Station

Construction Completion
- Civil Works 2010
- Pump Station 2011
Project Purpose:
Redistribution of flows and loads to optimize the performance of the existing and expanded STAs to improve water quality in the EPA.
Potential Project Components:
- ~ 40 Mi of Canal Work (2 Mi New/38 Mi Existing)
- New diversion structure in WPB Canal (L-10/12)
- New Sam Senter Extension Canal
- Expanding the existing Sam Senter Canal
- Expanding the Ocean/Cross Canal (L-13)
- Expanding the Hillsboro Canal (L-15)
- New diversion structure in the Hillsboro Canal
- Expanding the Bolles Canal (L-16 reach)
- Expanding the North New River Canal (L-18/19)
Accomplishments to date:

- Initiated Initial Design
  - Data Collection
  - Preliminary Evaluation Technical Memorandum
- Initiated Preliminary Survey
- Initiated Environmental Sampling SOW Development.
- Initiated BODR SOW Development.

What’s next:

- Perform Preliminary Geotechnical Services
- Finalize BODR scope development
Challenges:

- Movement of water 40 miles with a 4 foot change in elevation
  - Hydraulic Modeling
  - Sizing of the canals
- Existing infrastructure (Bridges, roads, utilities, etc…)
- Complete an Environmental Impact Statement and Obtain Permits
  - Historical canals
  - Cultural Resources
- Purchase of land for canal expansions
- Efficient Design is Based on knowing answers above
Questions?