

CENTRAL EVERGLADES PLANNING PROJECT



WG Sponsored Public Workshop

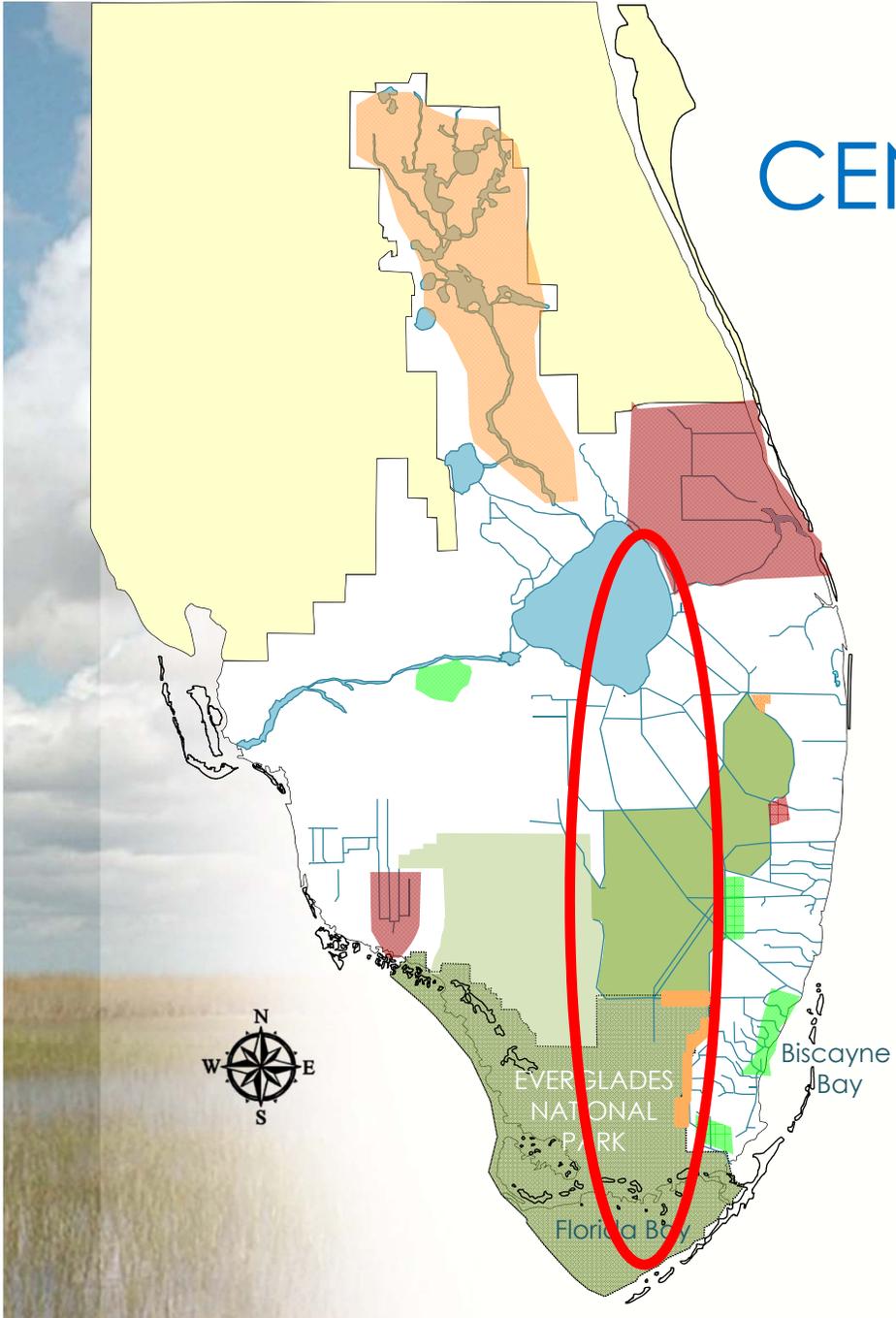
PRESENTED BY

Kim Taplin,
Chief, Central Everglades Branch

February 13, 2013

CENTRAL EVERGLADES

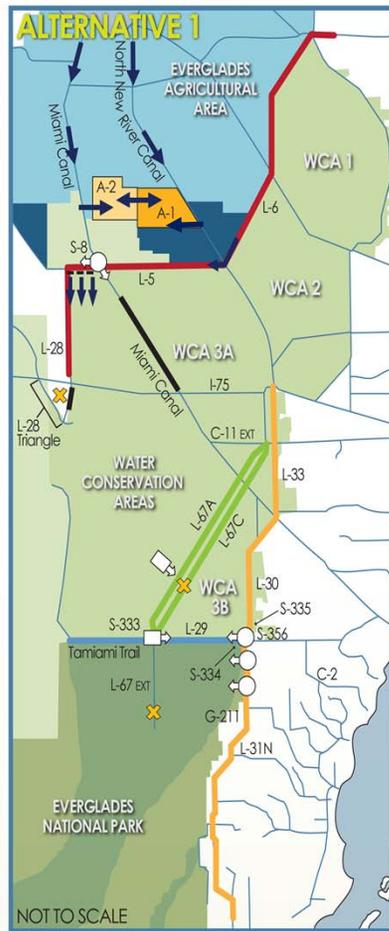
- Reduce undesirable discharges to east and west coast estuaries
- Deliver “new” sources of clean water to the Central Everglades and Everglades National Park
- To restore habitat in the Central Everglades and Everglades National Park, focusing on the “River of Grass”



OUTLINE OF PRESENTATION

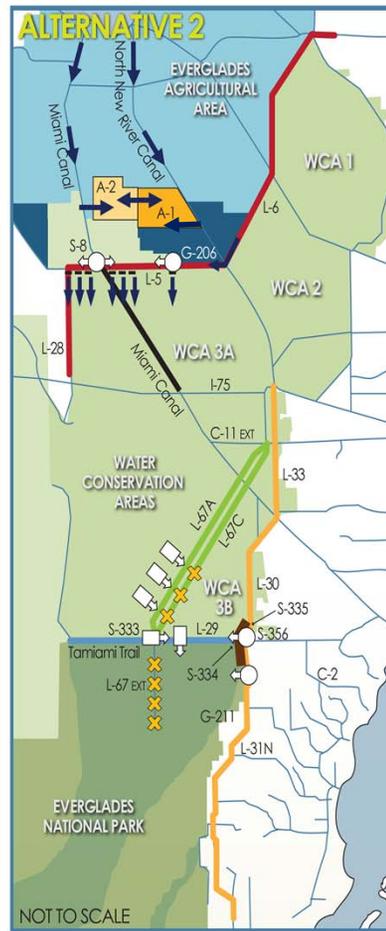
- Comparison of Alternatives
- Tentatively Selected Plan
- Next Steps
- Schedule

CEPP FINAL ARRAY OF ALTERNATIVES

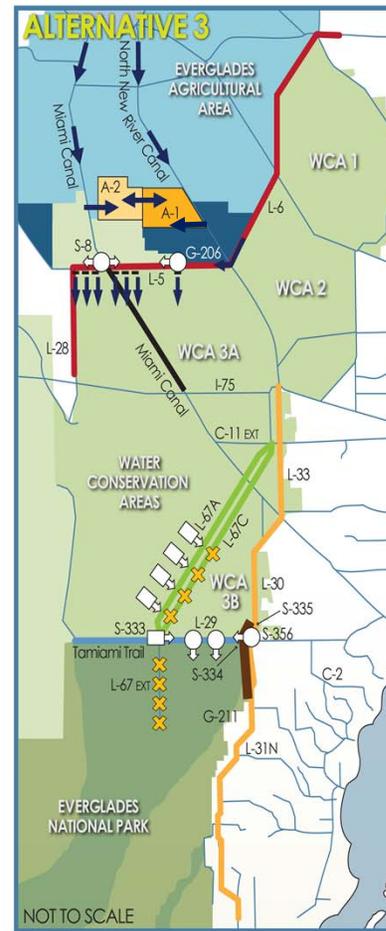


\$1.0B
\$295/Habitat Unit

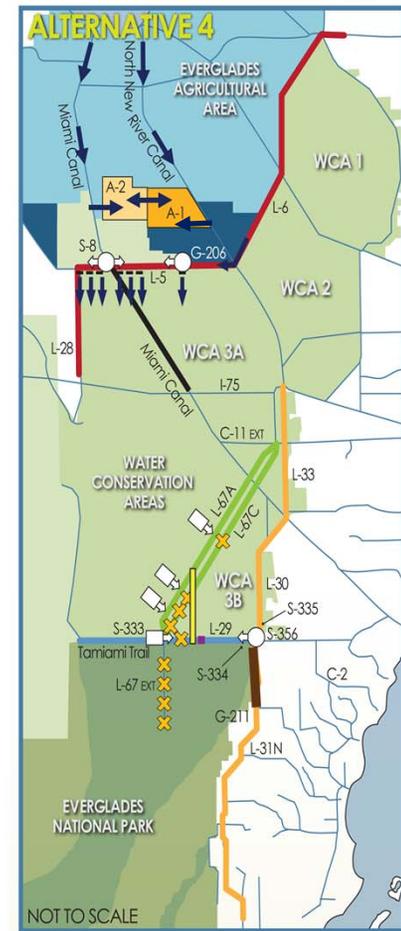
Cost Effective



\$1.16B
\$367/Habitat Unit



\$1.21B
\$354/Habitat Unit

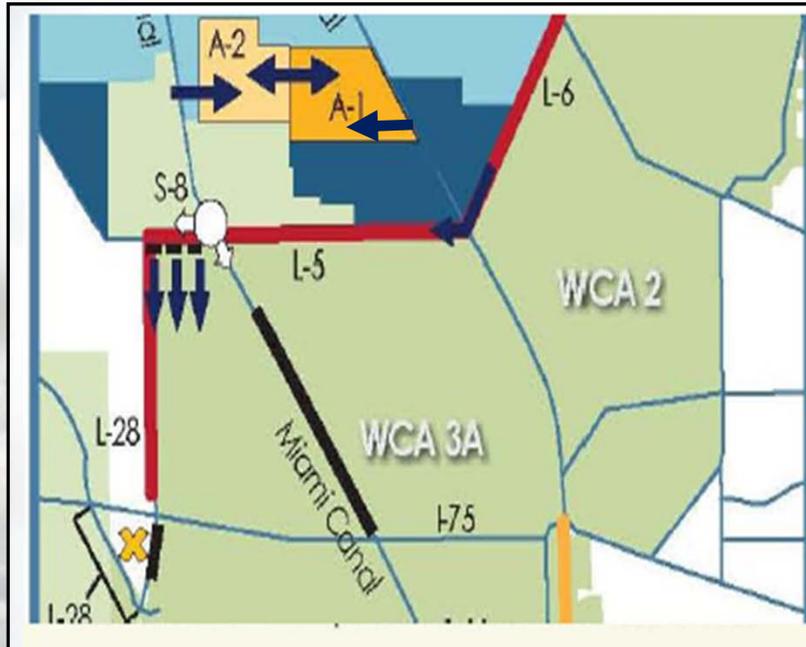


\$1.13 B
\$308/Habitat Unit

Cost Effective

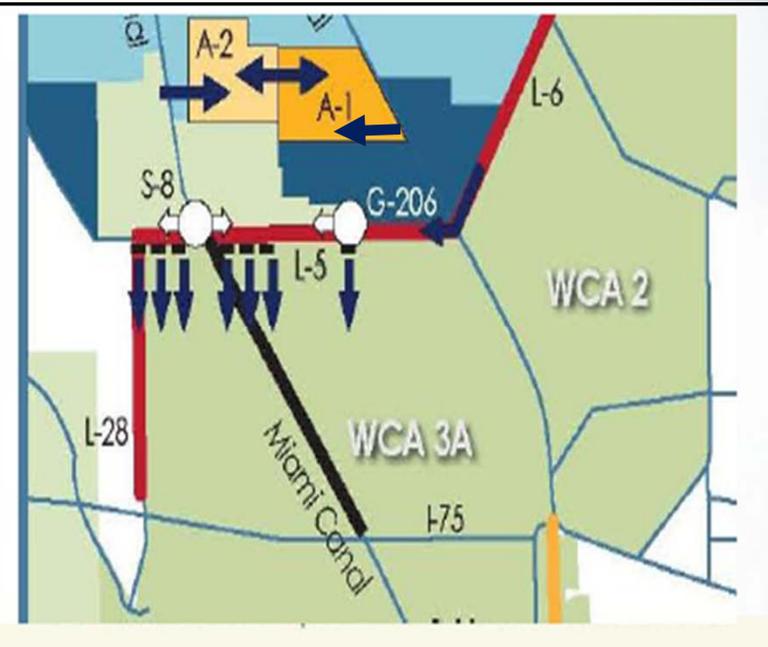
HYDROPATTERN RESTORATION FEATURE

Alternative 1



\$375M

Alternative 2, 3 and 4



\$472M

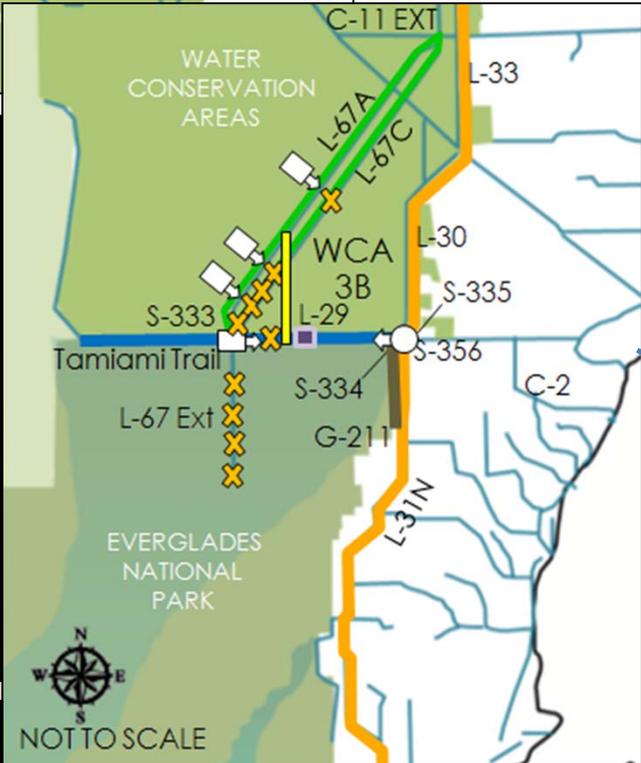
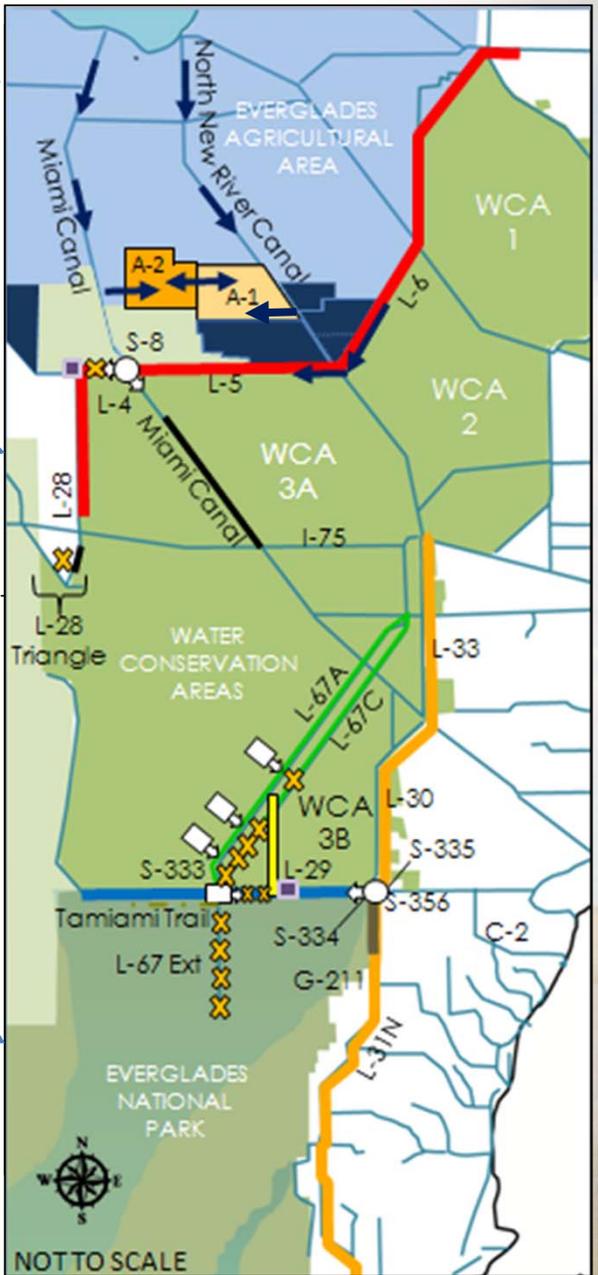
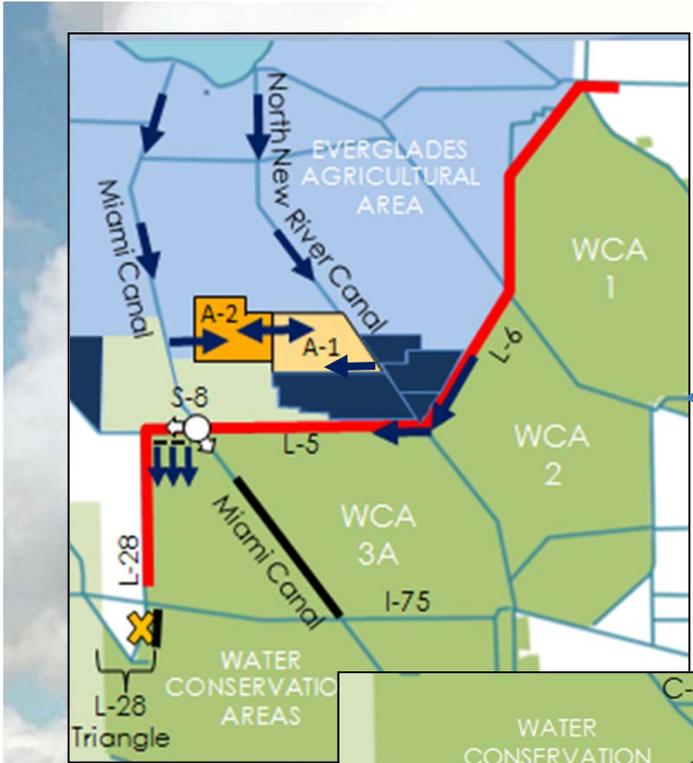
Habitat Unit Lift

Project Region (Zone)	ECB	Alt 1	Alt 2	Alt 3	Alt 4
WCA 3A	24,564	125,931	122,916	122,134	123,741
Total	24,564	125,931	122,916	122,134	123,741

TENTATIVELY SELECTED PLAN

ALT. 1

ALT. 4



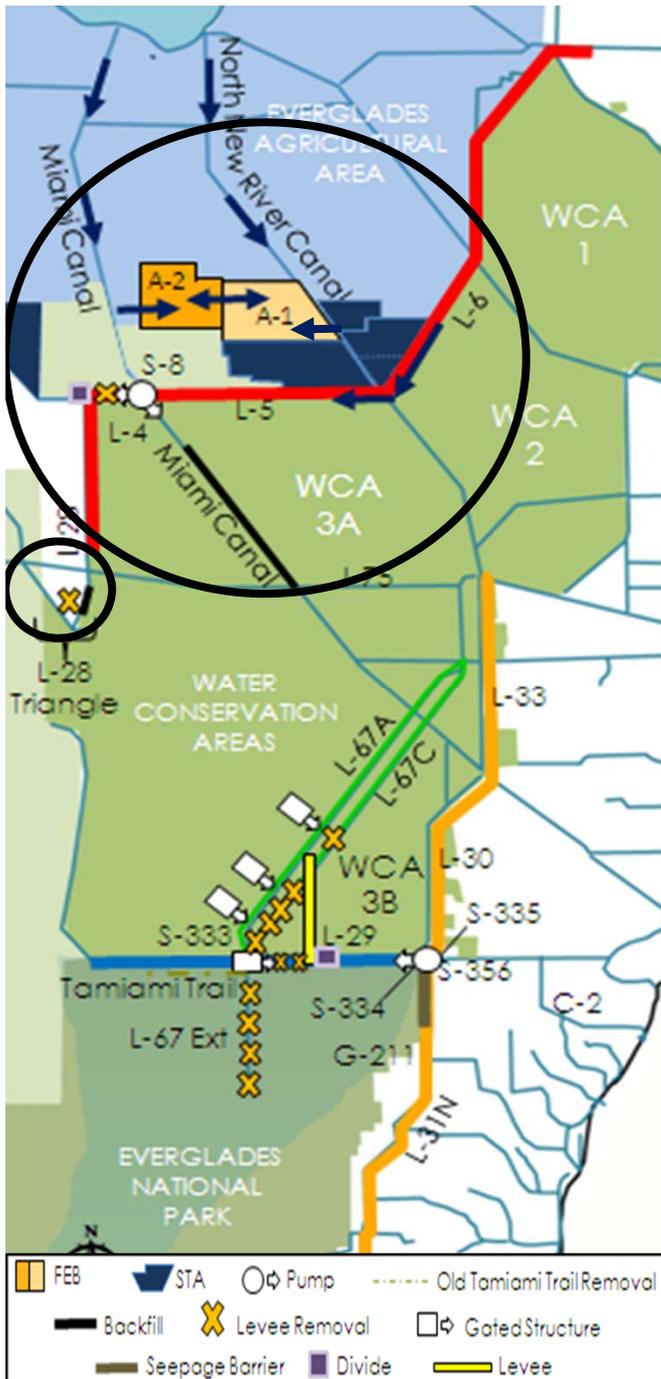
- FEB
- STA
- Pump
- Gated Structure
- Levee
- Backfill
- Seepage Barrier
- Divide
- Levee Removal
- Old Tamiami Trail Removal



NOT TO SCALE



NOT TO SCALE



STORAGE and TREATMENT

- Construct A-2 FEB and integrate with A-1 FEB operations
- Lake Okeechobee operation refinements within LORS

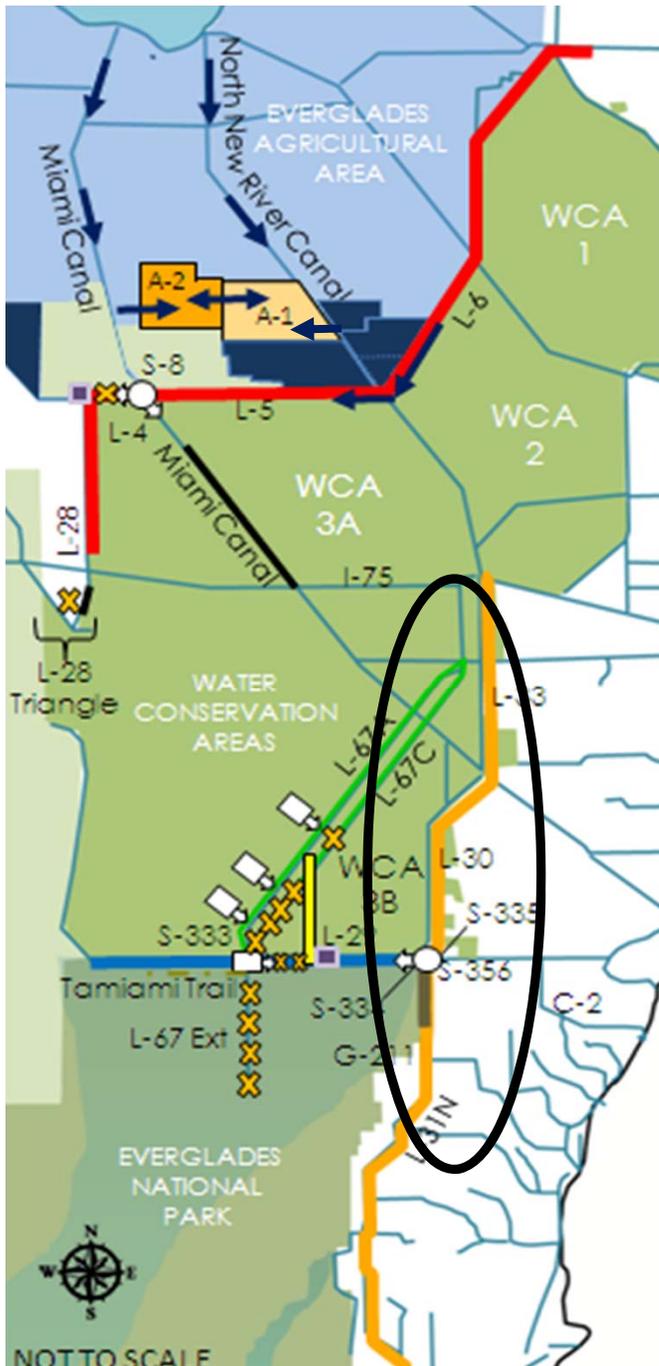
DISTRIBUTION/ CONVEYANCE

- Diversion of L-6 flows, Infrastructure and L-5 canal improvements
- Remove western ~2.9 miles of L-4 levee (west of S-8 3,000 cfs capacity)
- Divide structure at western terminus of L-4 levee removal
- Backfill Miami Canal and Spoil Mound Removal ~1.5 miles south of S-8 to I-75
- L-28 Triangle – levee gap and canal backfill (~ 9,000 LF)

SEEPAGE MANAGEMENT

- Increase S-356 pump station to ~1,000 cfs
- Partial depth seepage barrier south of Tamiami Trail (along L-31N)
- G-211 operational refinements; use coastal canals to convey seepage

Note: System wide operational changes and adaptive management considerations will be included in project

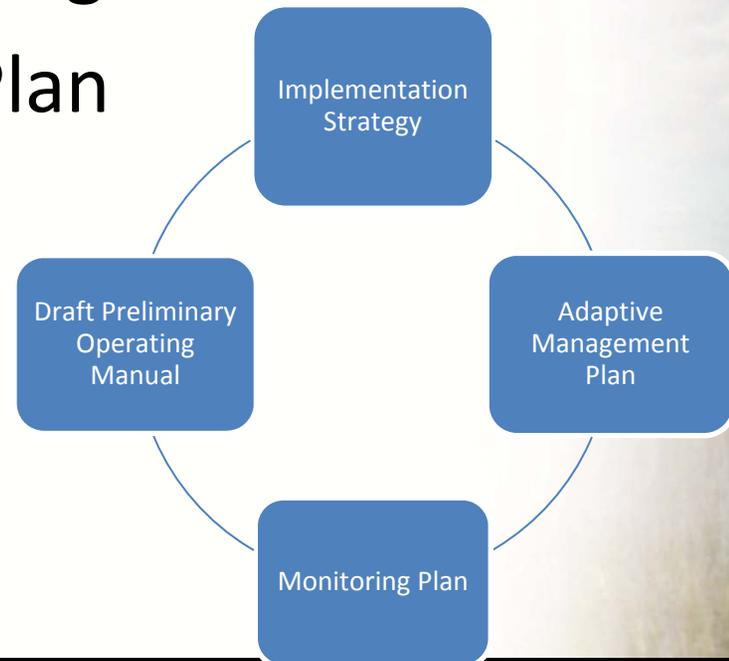


TENTATIVELY SELECTED PLAN: ALTERNATIVE 4R (REVISED)

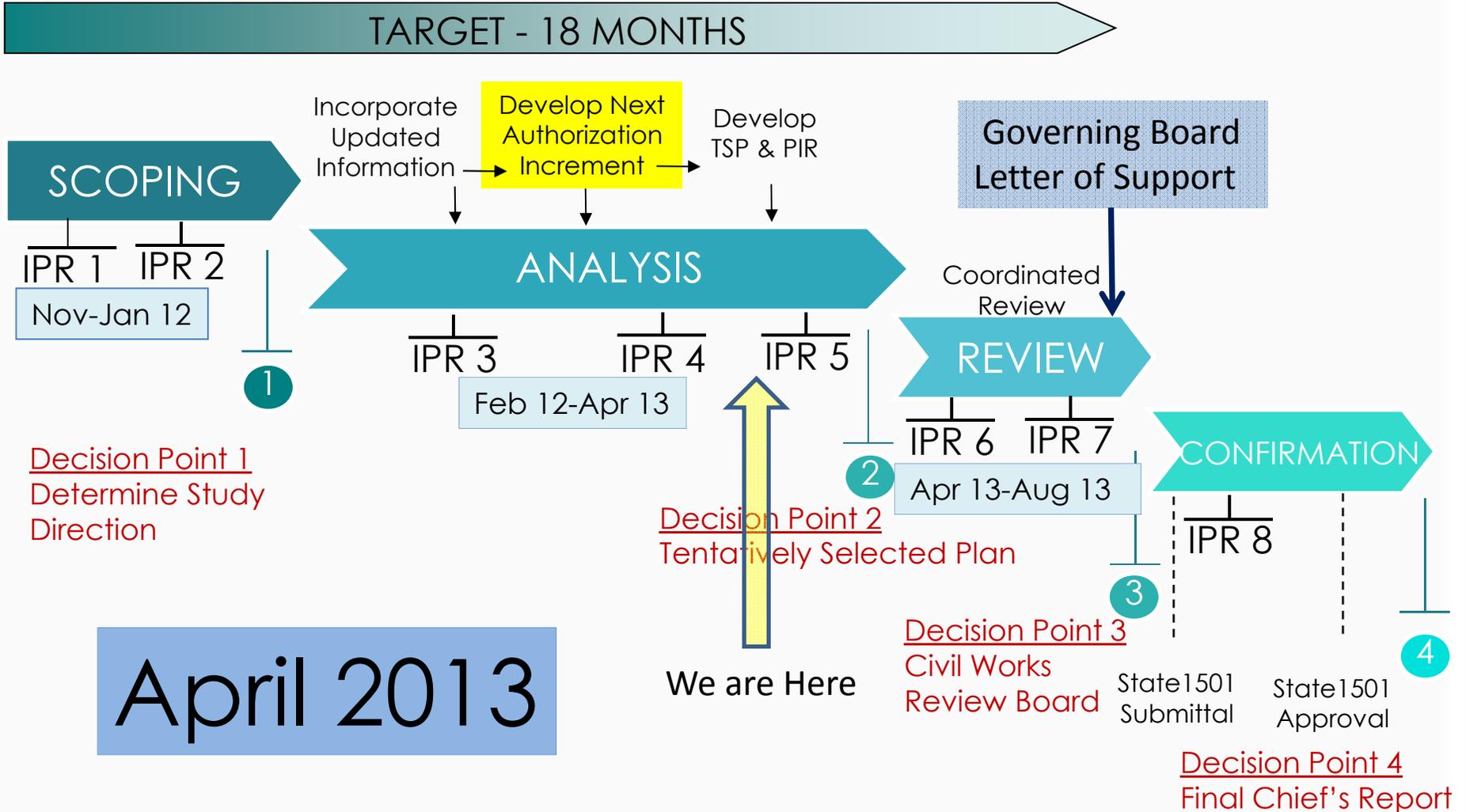
- **Alternative 4 revised to incorporate Hydropattern Restoration Feature of Alternative 1**
 - ▶ Provides the greatest overall benefits with the least cost per habitat unit
 - ▶ Provides the greatest ecological connectivity and longest uninterrupted flow-way via the removal of the L-29 Levee
 - ▶ Provides the greatest benefits to Everglades National Park and Florida Bay
- **Operational refinement of inflows into WCA 3B outside Blue Shanty flow-way**
 - ▶ Maximizes benefits in WCA 3B with no additional cost
 - ▶ Address concerns about extent of seepage reduction
- **Seepage infrastructure and operations refinement**
 - ▶ Shift Blue Shanty levee east to coincide with bridge span opening and landscape patterns
 - ▶ Modify seepage barrier south of Tamiami Trail due to greater than desired reduction in seepage
 - ▶ Optimize operations and design during saving clause analyses and value engineering
- **Implementation will utilize adaptive management approach as envisioned in CERP**
 - ▶ Incrementally sequence construction of project features

NEXT STEPS

- Savings Clause/Project Assurances Analysis
- Implementation and Sequencing Strategy
 - ▶ Working Group Sponsored Public Workshop
 - February 13th – SFWMD Auditorium
- Draft Preliminary Operating Manual
- Adaptive Management Plan
- Monitoring Plan



CENTRAL EVERGLADES PROCESS



IPR: In-Progress Review with Corps Leadership

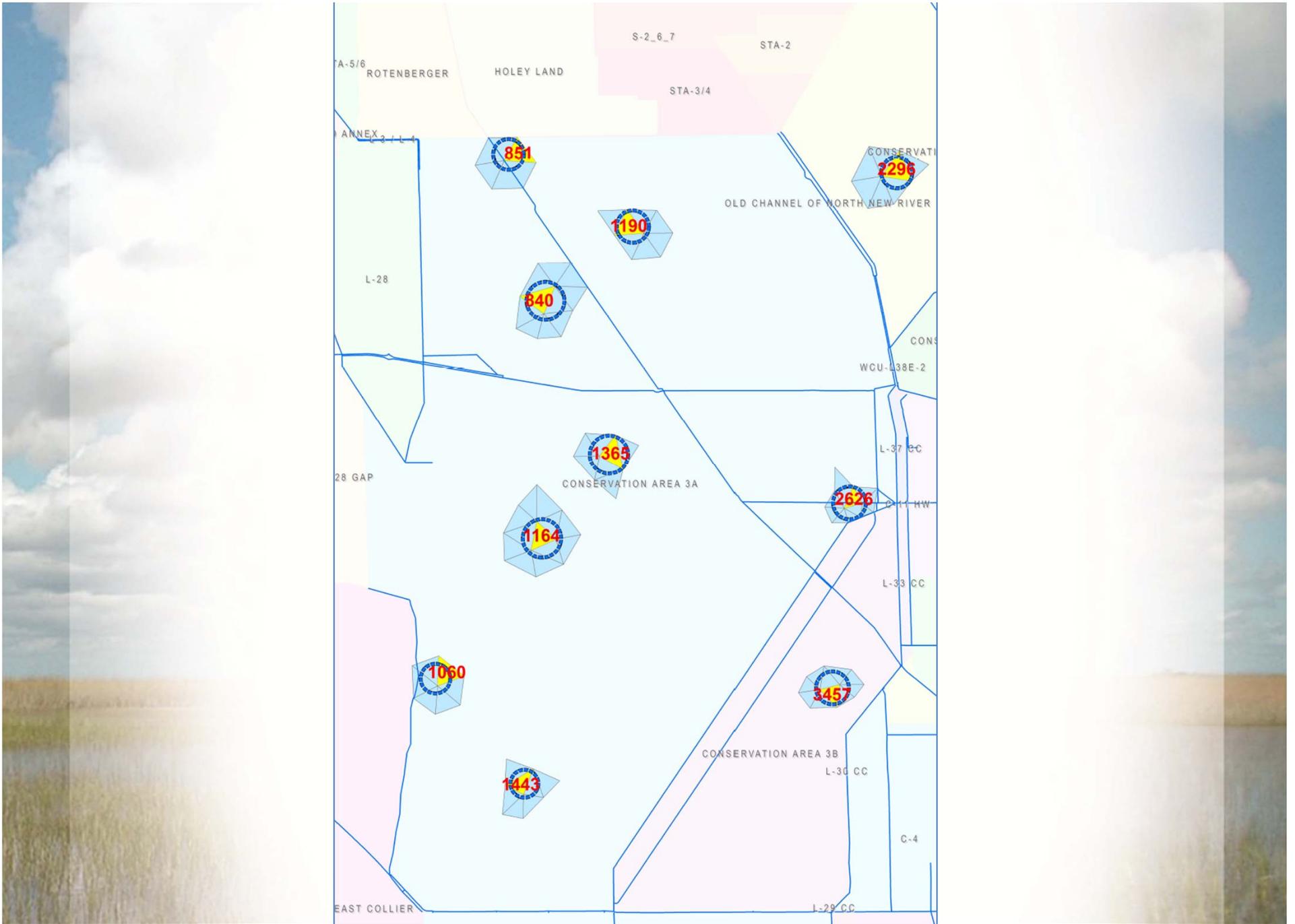


THANK YOU

Visit www.evergladesplan.org for information

SUMMARY OF COST FOR CEPP ALTERNATIVES

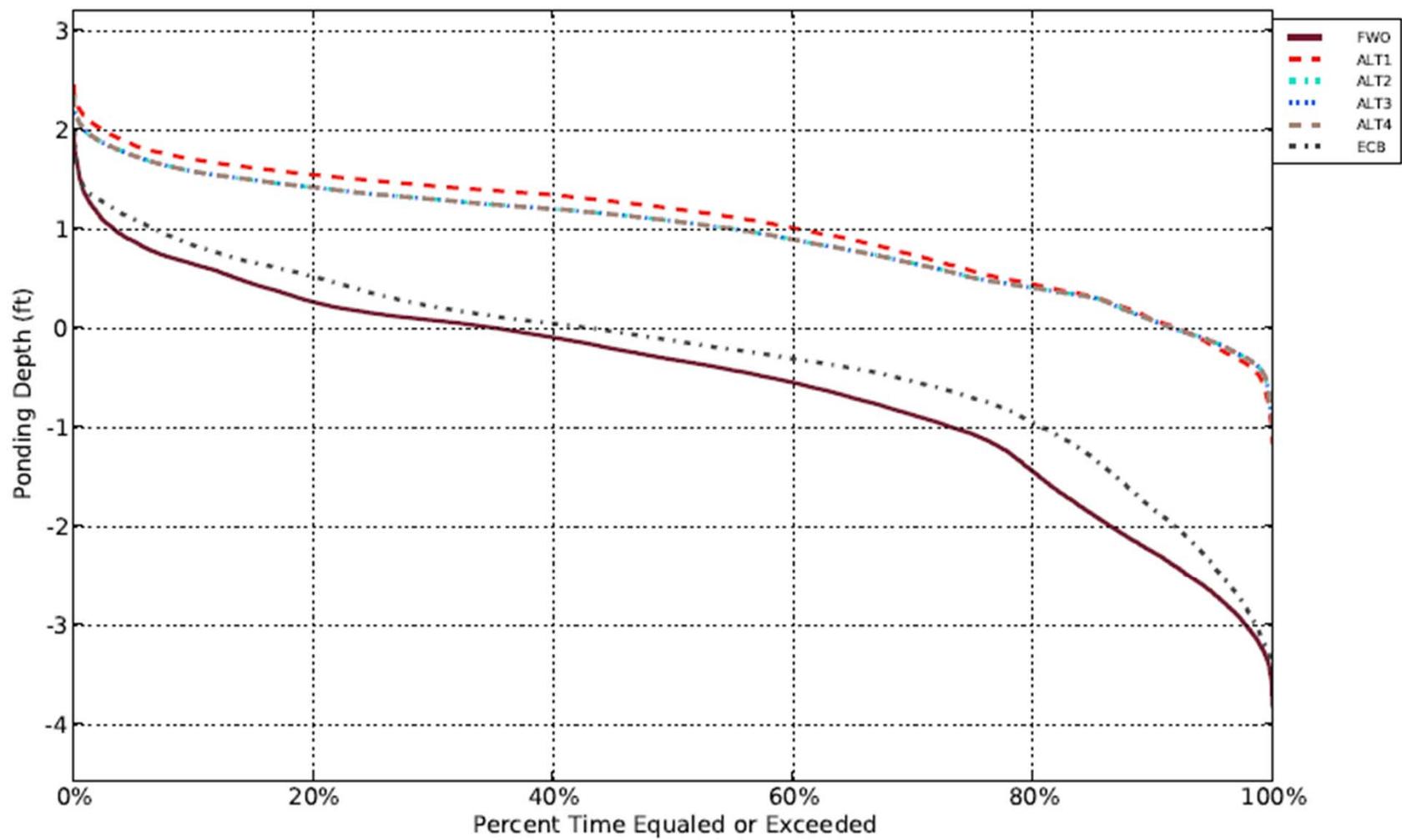
Cost Component	Alt.1	Alt.2	Alt.3	Alt.4
Construction	\$1,004,971,800	\$1,185,486,400	\$1,240,380,300	\$1,151,706,100
Lands	\$ 45,450,000	\$ 42,690,000	\$ 42,690,000	\$ 42,690,000
	\$1,050,421,800	\$1,228,176,400	\$1,283,070,300	\$1,194,396,100
Average Annual Cost	\$ 61,234,763	\$ 75,287,457	\$ 78,652,464	\$ 73,216,718
Operation & Maintenance	\$ 5,518,749	\$ 6,353,146	\$ 6,862,893	\$ 6,487,715
Total Annualized Costs (construction, lands, O&M)	\$ 66,800,000	\$ 81,600,000	\$ 85,500,000	\$ 79,700,000



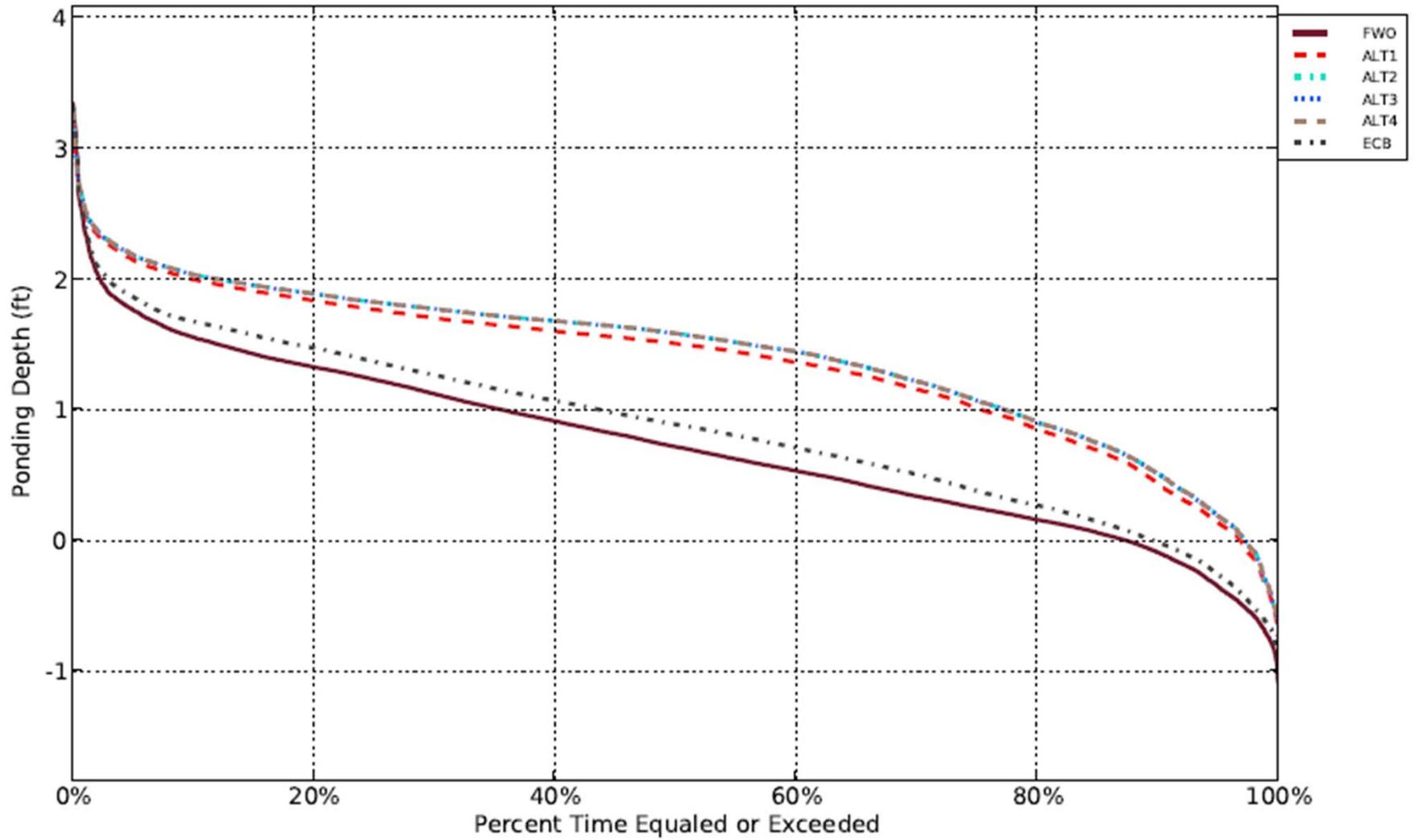
RESTORING THE HEART OF THE EVERGLADES

CENTRAL EVERGLADES

Normalized Duration Curves for North West WCA3A-Near S8
Elev: 11.57 ft, NGVD29; Cell ID: 851



Normalized Duration Curves for North Central WCA3A-Near Camp60
Elev: 9.89 ft, NGVD29; Cell ID: 1190



Normalized Duration Curves for North Central WCA3A
Elev: 10.44 ft, NGVD29; Cell ID: 840

