

# Modified Water Deliveries to Everglades National Park Project



## Governing Board Update

PRESENTED BY

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U.S. Army Corps of Engineers

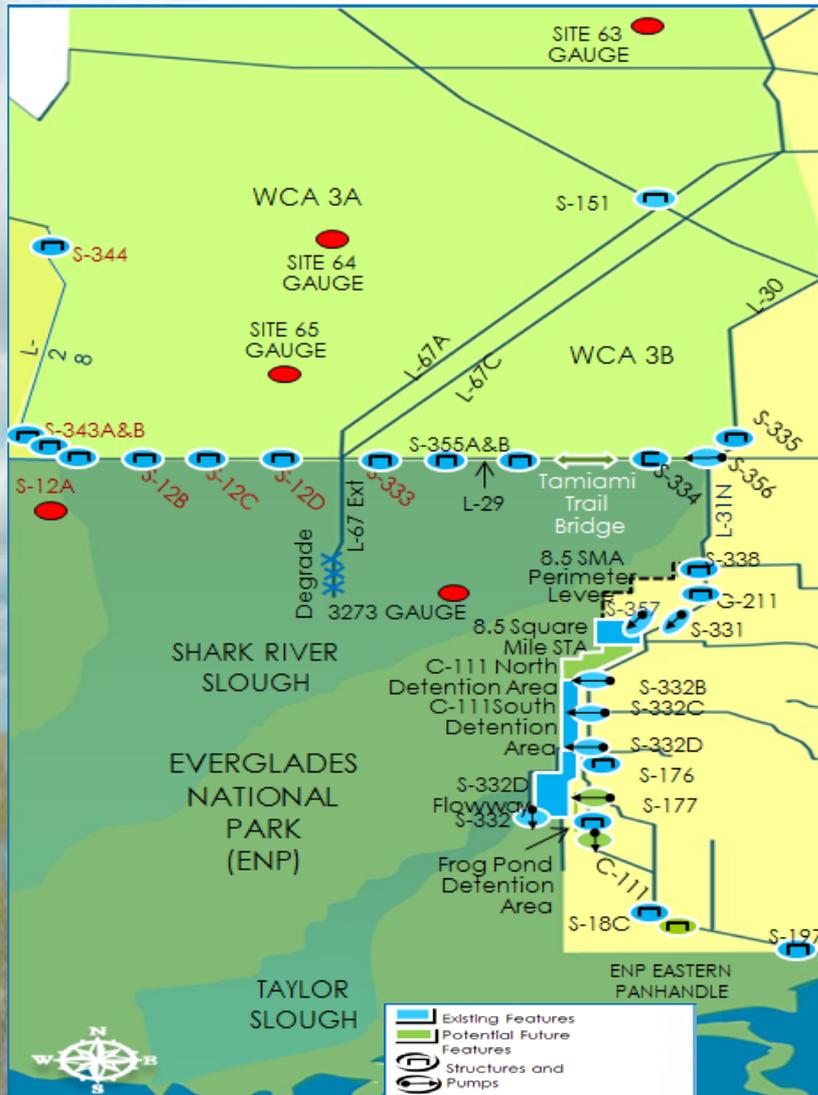
Ernie Barnett

Assistant Executive Director  
South Florida Water  
Management District  
June 13, 2013

# Background

- Authorized by Section 104 of the 1989 Everglades National Park Protection and Expansion Act
- Project Cooperation Agreement signed in September 1994
  - Corps responsible for construction
  - 100% Federal funding for land and construction
  - SFWMD responsible for performing operations and maintenance with 75% Federal cost-share
- Agreement amended in July 2001 and August 2008
  - A-1 modified 8.5 Square Mile Area features
  - A-2 modified Tamiami Trail features

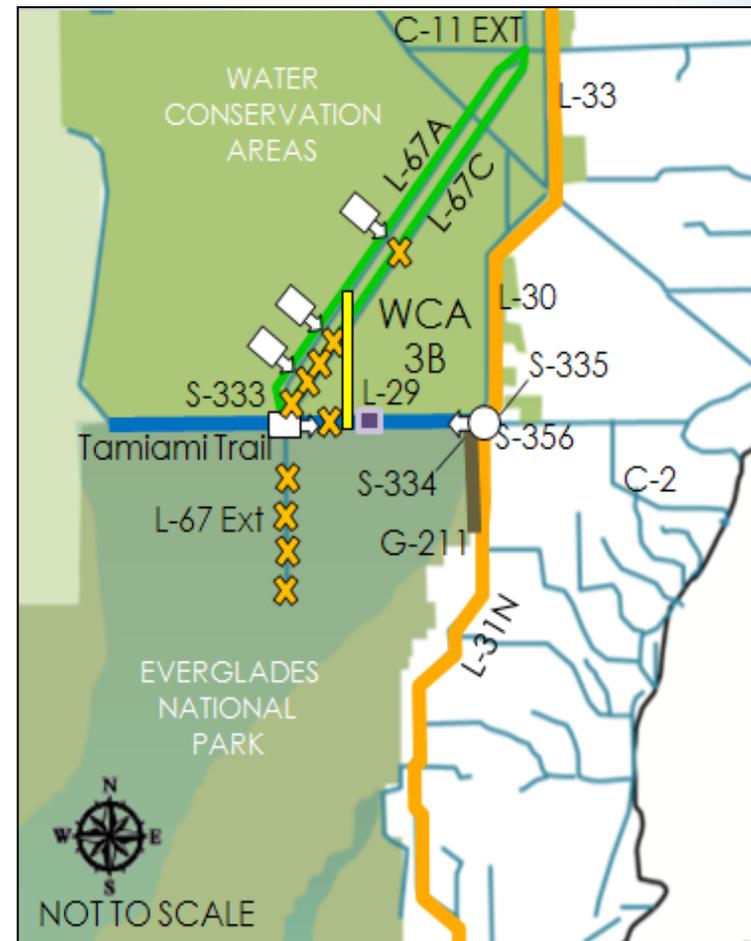
# Modified Water Deliveries to Everglades National Park



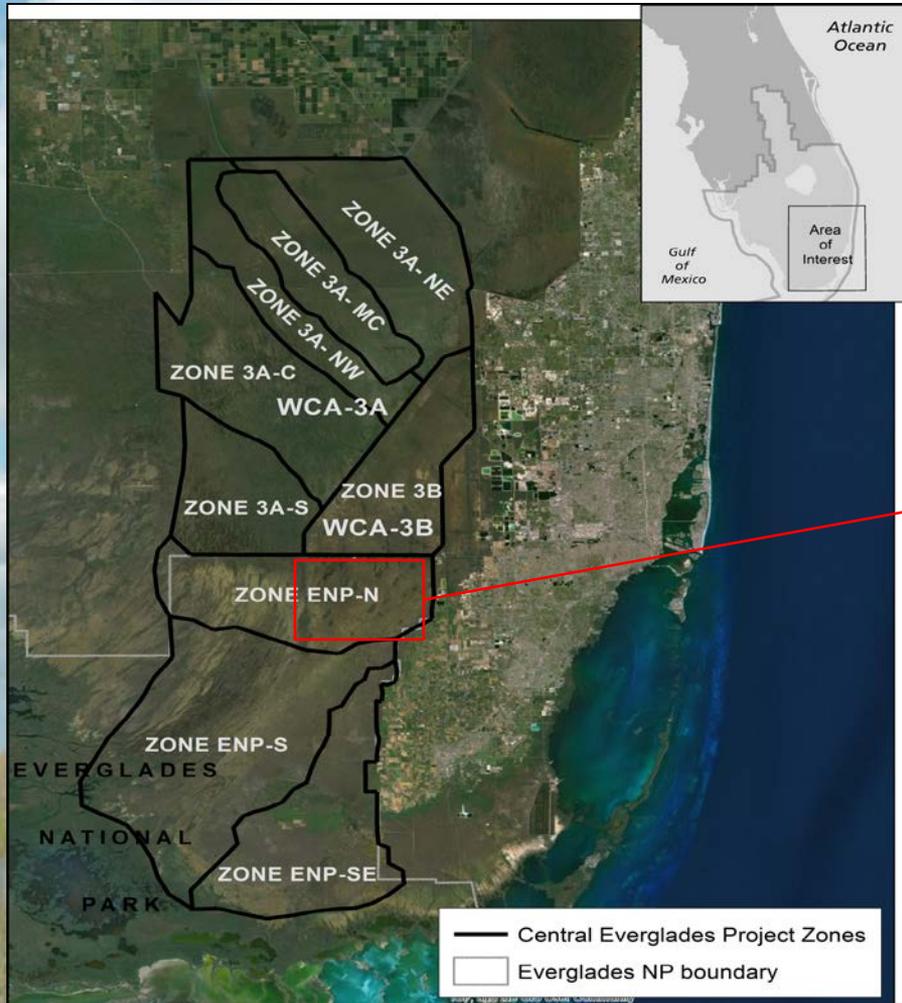
- Re-distribution of the existing water that flows out of WCA-3A
- Constructed S-355A & S-355B
- Raised Tigertail Camp
- Degraded the lower 4 miles of L-67 extension & levee
- Constructed S-356 pump station
- Completed construction of 8.5 Square Mile Area mitigation features
- Tamiami Trail bridge constructed

# Central Everglades Alt4R Features

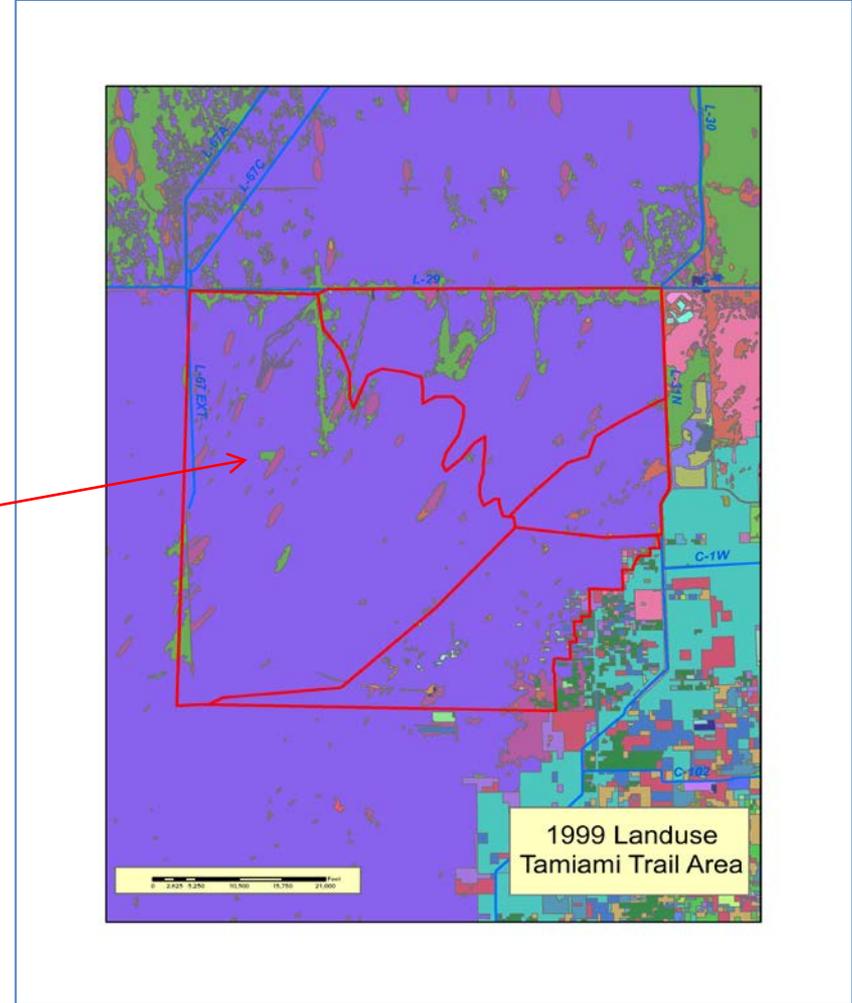
- Redirect WCA-3A flows (Enlarged S-333)
- WCA-3B Inflows (Blue Shanty Flow-way)
- Levees Degraded (L-67C, L-29, L-67 Ext)
- L-29 Divide Structure
- Seepage Management (Enlarged S-356, L-31N Seepage Barrier)



# Areas Used to Quantify Project Benefits (ENP)



CEPP



2008 Tamiami Trail Modifications

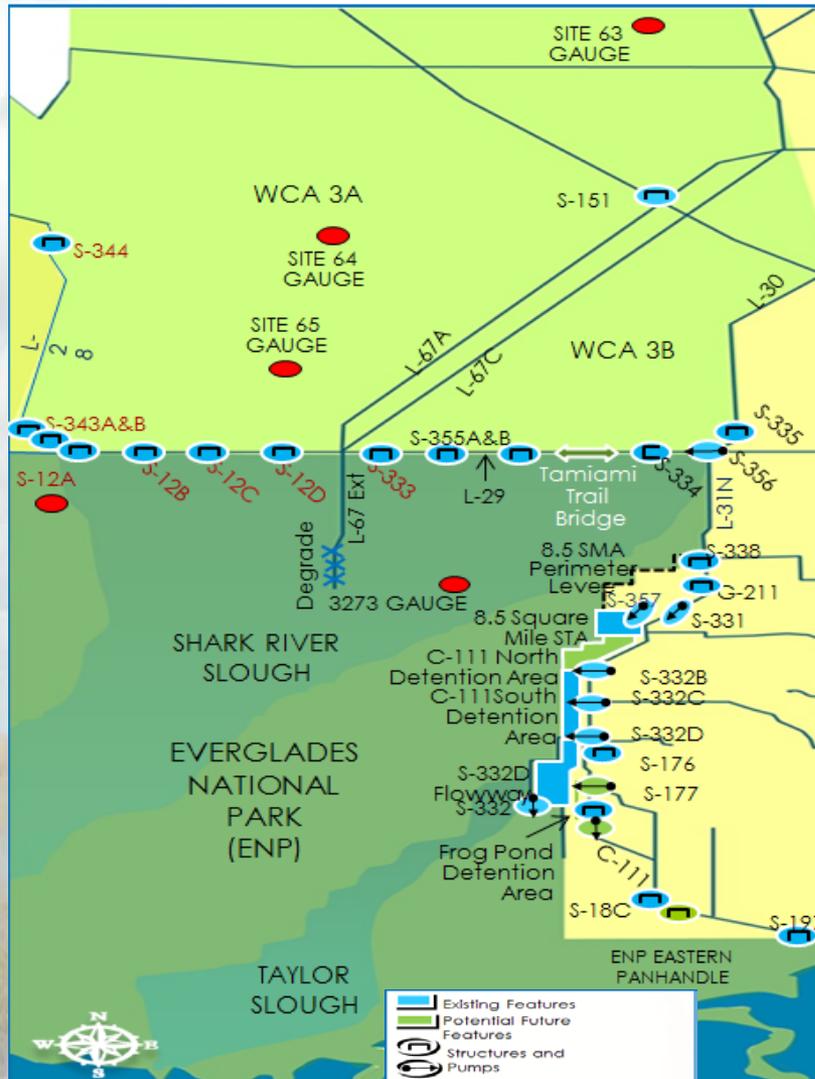
LRR and EA

# CEPP Habitat Unit Benefits Evaluation

Habitat Units					Habitat Unit Lift (ALT – FWO)	% of Total by Planning Region
Planning Regions	Zones	Maximum Acreage	FWO	ALT 4 R		
Northern Estuaries	CE-1	70,979	34,070	39,038	4,968	• 75
	SE-1	14,994	3,149	4,798	1,649	• 25
<b>Total</b>			<b>37,219</b>	<b>43,836</b>	<b>6,617</b>	• -
Greater Everglades	3A-NE	123,475	29,634	92,606	62,972	• 29
	3A-MC	78,208	27,373	54,746	27,373	• 13
	3A-NW	70,387	30,266	54,198	23,932	• 11
	3A-C	137,233	105,669	109,786	4,117	• 2
	3A-S	82,437	68,423	68,423	0	• 0
	3B	85,688	48,842	58,268	9,426	• 4
	ENP-N	125,123	55,054	98,847	43,793	• 20
	ENP-S	238,592	126,454	169,400	42,946	• 20
	ENP-SE	135,104	81,062	85,116	4,054	• 2
<b>Total</b>			<b>572,777</b>	<b>791,390</b>	<b>218,613</b>	• -
Florida Bay	FB-W	157,952	20,534	39,488	18,954	• 36
	FB-C	82,048	8,205	13,948	5,743	• 11
	FB-S	97,728	14,659	27,364	12,705	• 24
	FB-EC	87,936	20,225	33,416	13,191	• 25
	FB-NB	12,672	2,028	2,661	633	• 1
	FB-E	37,760	8,685	9,818	1,133	• 2
<b>Total</b>			<b>74,336</b>	<b>126,695</b>	<b>52,359</b>	• -

- HU are not directly comparable (different models and performance measures used)
- Mod Waters Project provides ecosystem benefits primarily to NE Shark River Slough
  - 100% of the benefits are south of Tamiami Trail
- CEPP provides ecosystem benefits to the Northern Estuaries, Greater Everglades and Florida Bay
  - 48.5% of the benefits are north of Tamiami Trail

# Steps to Complete Modified Waters and C-111 South Dade Projects



- G-3273 and S-356 operational testing
- Northern Detention Area and C-111 South Dade constructed (Contract 8)
- Combined operational plan for Modified Waters and C-111

# Summary

- Mod Waters Project is a precursor to CERP and CEPP projects
- Significant benefits to Everglades National Park and NE Shark River Slough will accrue from Mod Waters
- Significant additional benefits to Everglades National Park and WCA 3A & 3B will occur from CEPP