Vegetation Management within the Stormwater Treatment Areas

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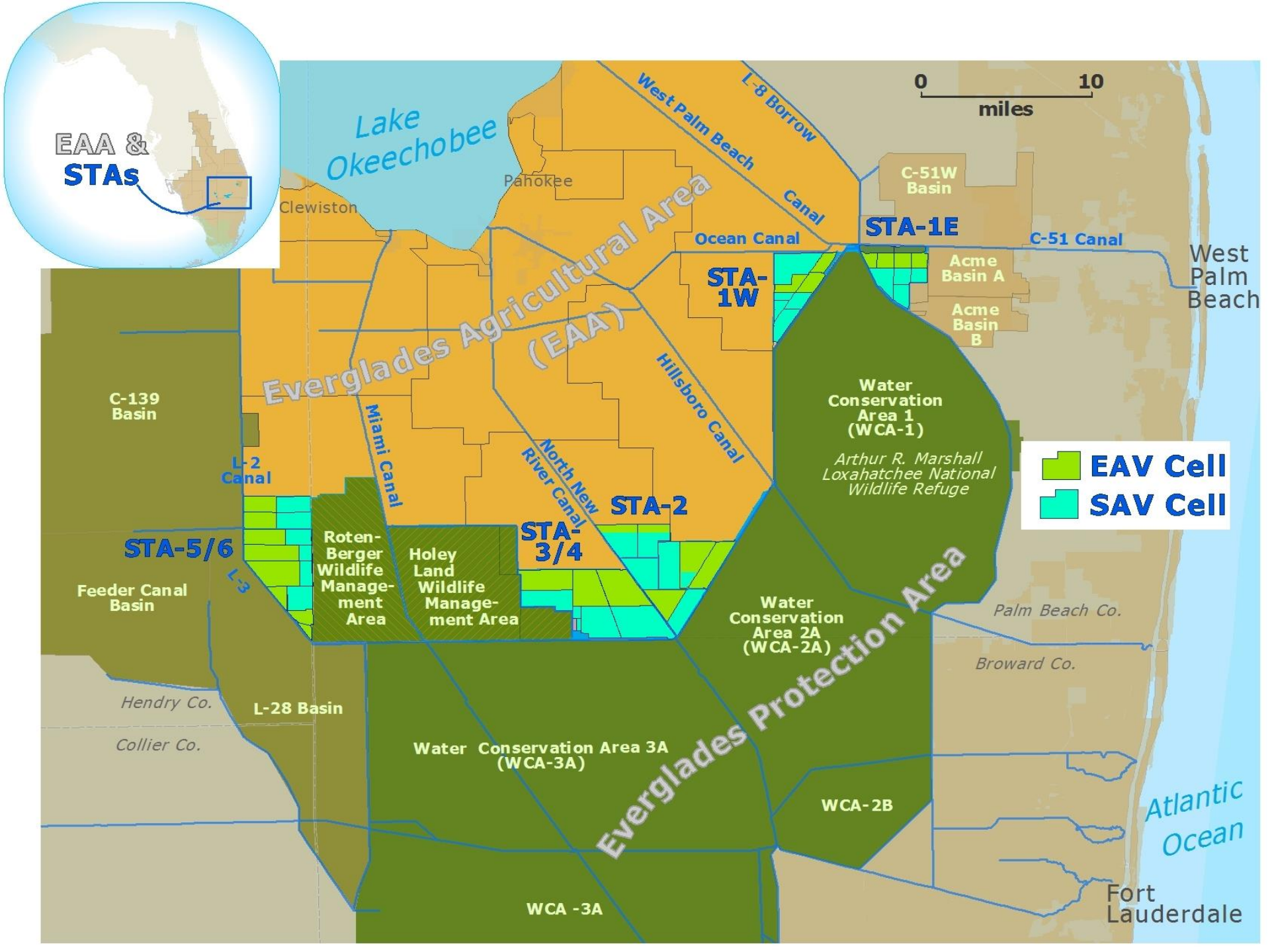
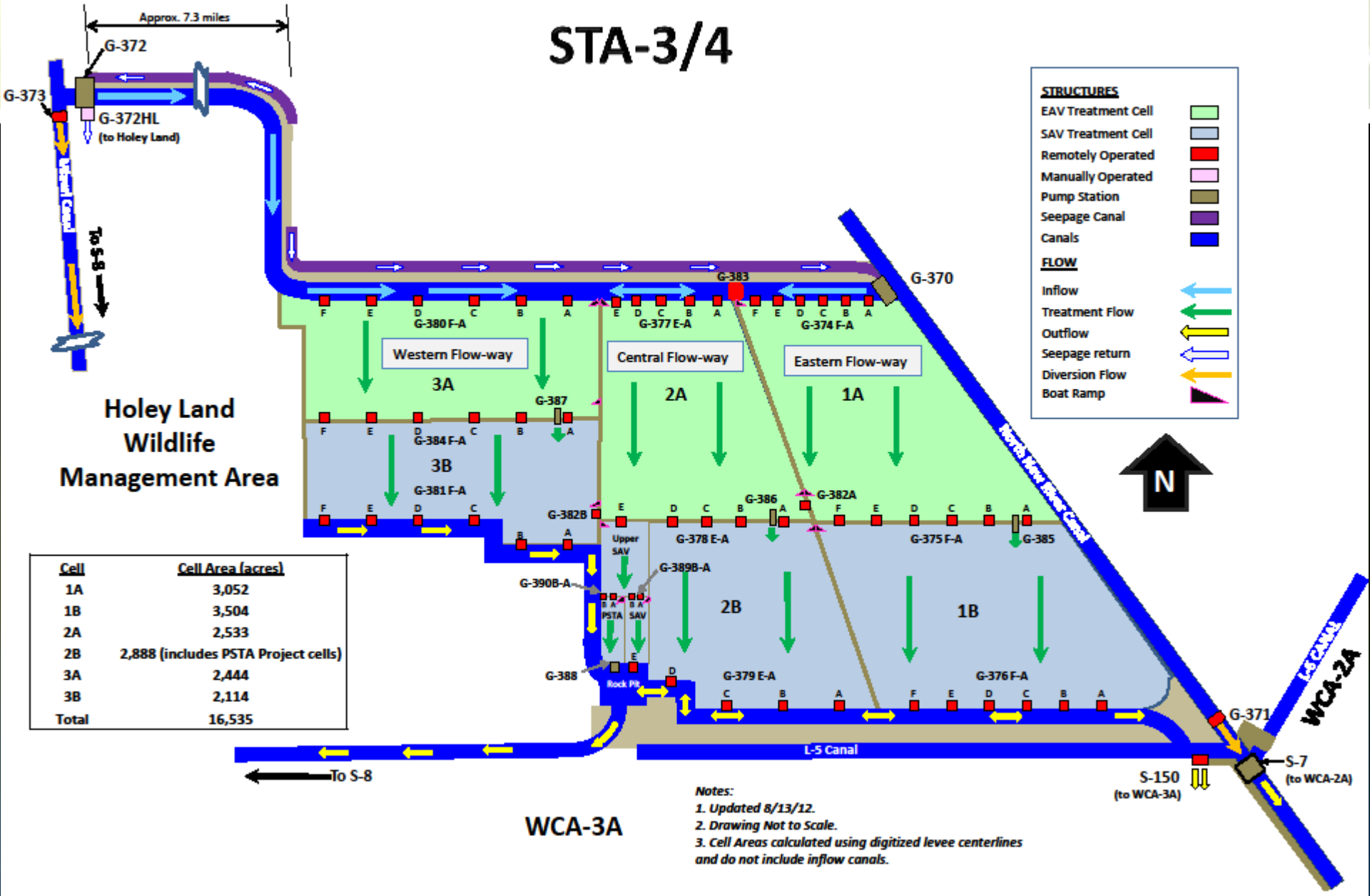

EAA &
STAs
Lake Okeechobee
Pahokee
Clewiston
West Palm Beach Canal
L-8 Borrow
0
10
miles
C-51W Basin
STA-1E
C-51 Canal
West Palm Beach
Ocean Canal
Acme Basin A
Acme Basin B
STA-1W
Everglades Agricultural Area (EAA)
Hillsboro Canal
Water Conservation Area 1 (WCA-1)
Arthur R. Marshall Loxahatchee National Wildlife Refuge
EAV Cell
SAV Cell
C-139 Basin
Miami Canal
L-2 Canal
North New River Canal
STA-2
STA-3/4
STA-5/6
L-3
Roten-Berger Wildlife Manage-ment Area
Holey Land Wildlife Manage-ment Area
Feeder Canal Basin
Water Conservation Area 2A (WCA-2A)
Everglades Protection Area
Palm Beach Co.
Broward Co.
Hendry Co.
L-28 Basin
Collier Co.
Water Conservation Area 3A (WCA-3A)
WCA-2B
Atlantic Ocean
WCA -3A
Fort Lauderdale

STA-3/4



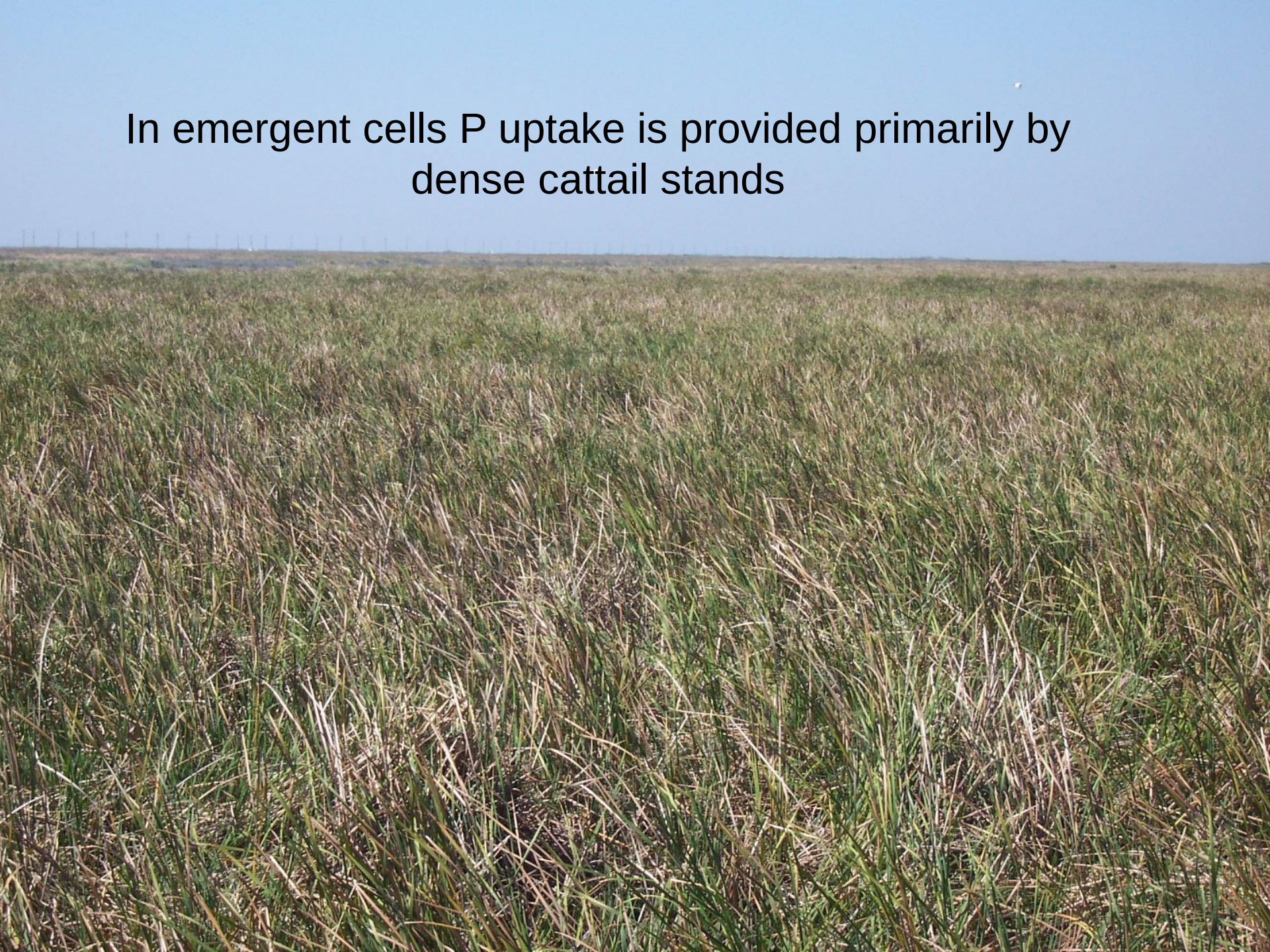
Cell	Cell Area (acres)
1A	3,052
1B	3,504
2A	2,533
2B	2,888 (includes PSTA Project cells)
3A	2,444
3B	2,114
Total	16,535

Notes:
1. Updated 8/13/12.
2. Drawing Not to Scale.
3. Cell Areas calculated using digitized levee centerlines and do not include inflow canals.

STA Vegetation Management Goals

- Establish and sustain vegetation-based treatment system
- Ensure hydraulic efficiency and flood control capabilities
- Maintain integrity of infrastructure and monitoring network
- Facilitate conservation of wildlife resources, public use, and recreation

In emergent cells P uptake is provided primarily by dense cattail stands



Phosphorus Uptake and Removal in Emergent Cells

- High leaf litter production
- Slow microbial decomposition
- Soil accumulation

Phosphorus Uptake and Removal in SAV Cells

- Water column uptake
- Attached periphyton
- Co-precipitation of calcium and phosphorus
- Recalcitrant floc accumulation

Maintenance of Vegetation-based Treatment System within SAV Cells

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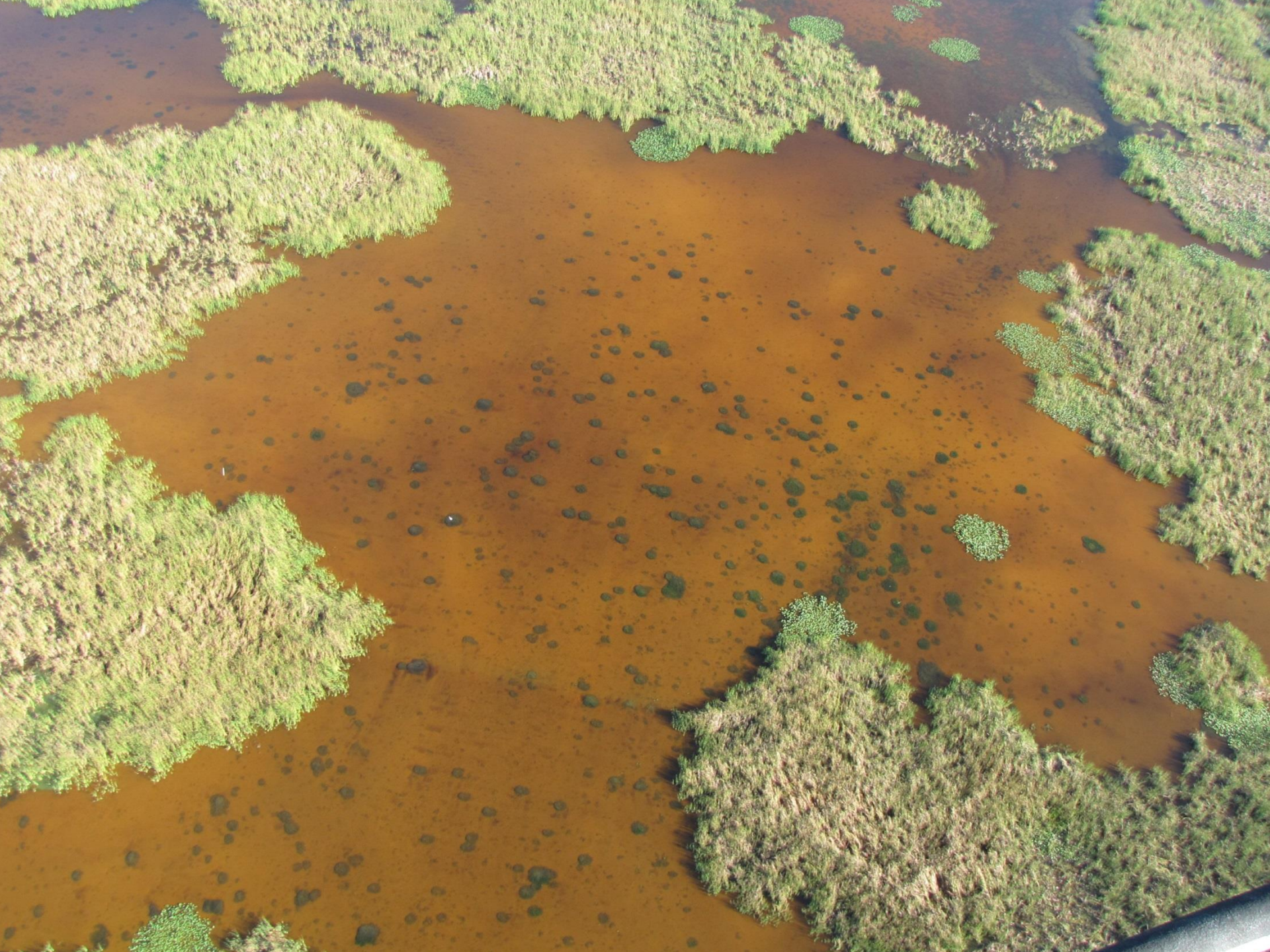

STA Vegetation Management

- Facilitate conservation of wildlife resources, public use, and recreation

S.T.A. 5/6 - Snail Kite Nest Locations - July 08, 2013

(With 2008 1 Foot Resolution Hendry County Natural Color Aerial Photography)