

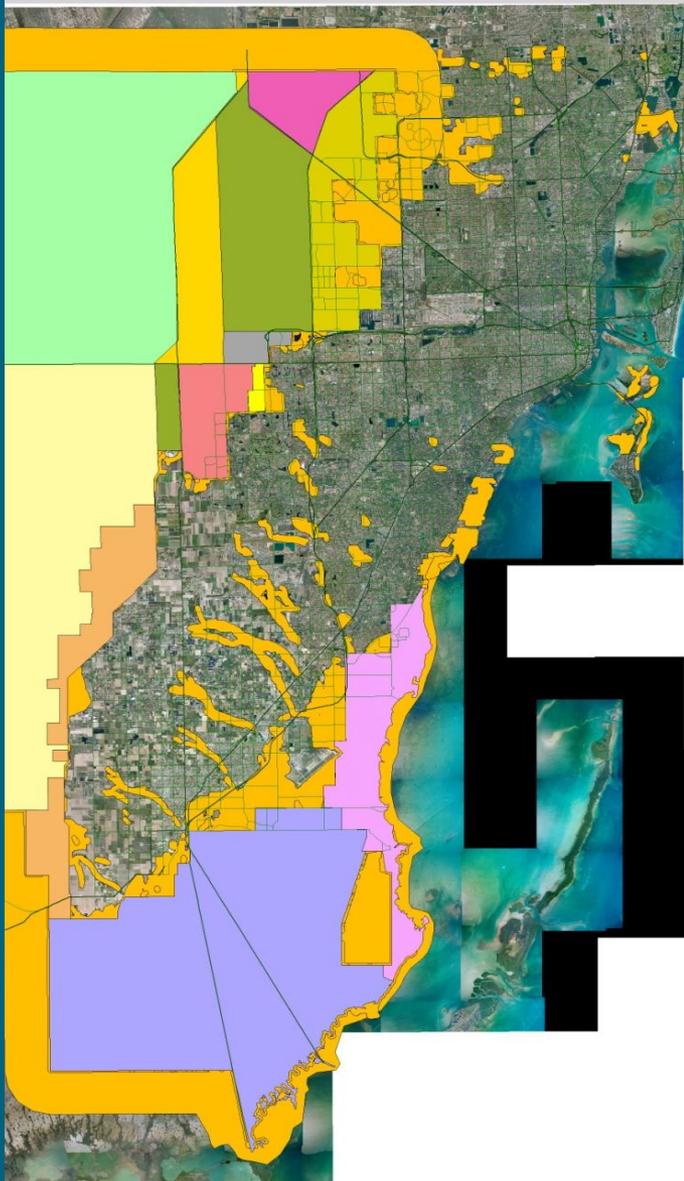
# **Miami-Dade County Wetlands Permitting**

**Miami-Dade County Wetlands Advisory Task Force**

**October 19, 2011**

**Matthew Davis, Division Chief  
Natural Resource Regulation and Restoration  
Permitting, Environment and Regulatory Affairs**

# Wetland Areas of Concern and Wetland Basins in Miami-Dade County



- Major Streets
- Highways
- Wetland Basins
  - BIRD DRIVE BASIN
  - C-9 BASIN
  - EAST BIRD DRIVE
  - EAST EVERGLADES
  - EAST TURNPIKE
  - EVERGLADES NATIONAL PARK EXPANSION AREA
  - NORTH TRAIL BASIN
  - PENNSUCO WETLANDS
  - SOUTH DADE WETLANDS
  - SOUTHWEST BISCAYNE BAY
  - TRANSITIONAL NORTHEAST EVERGLADES
  - WATER CONSERVATION AREA
  - Wetland Areas of Concern
- Canvas
  - 33
  - 57

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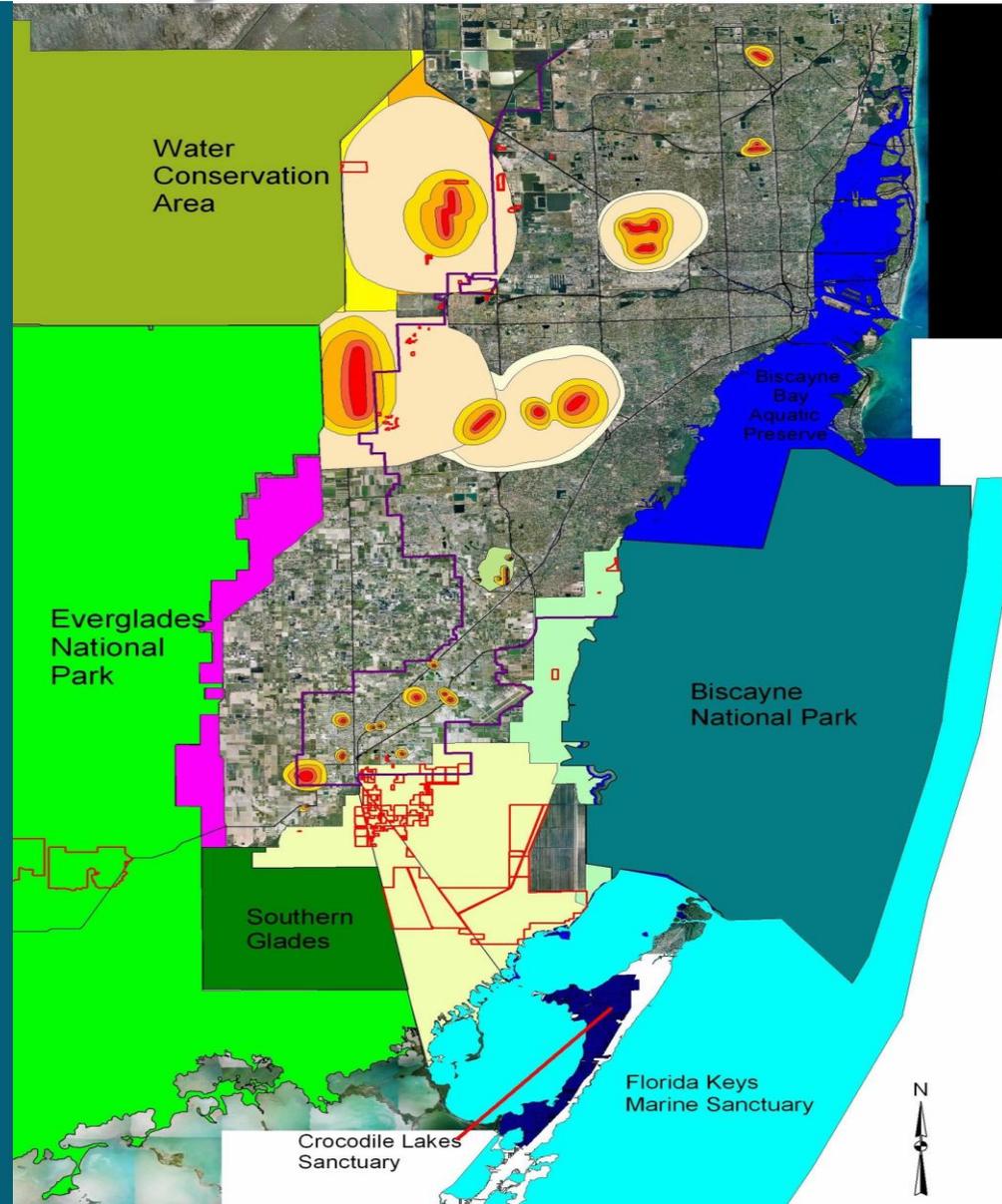
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SCALE: 1 inch = 11567.91 Feet

# Environmental Considerations for Miami-Dade County's Natural Resources



# Wet Prairie/Sawgrass Marsh Under Wet Conditions



# Wet Prairie/Sawgrass Marsh Under Dry Conditions



# Wetland Tree Island



# Tree Farm in Wetlands



# Tree Farm in Wetlands



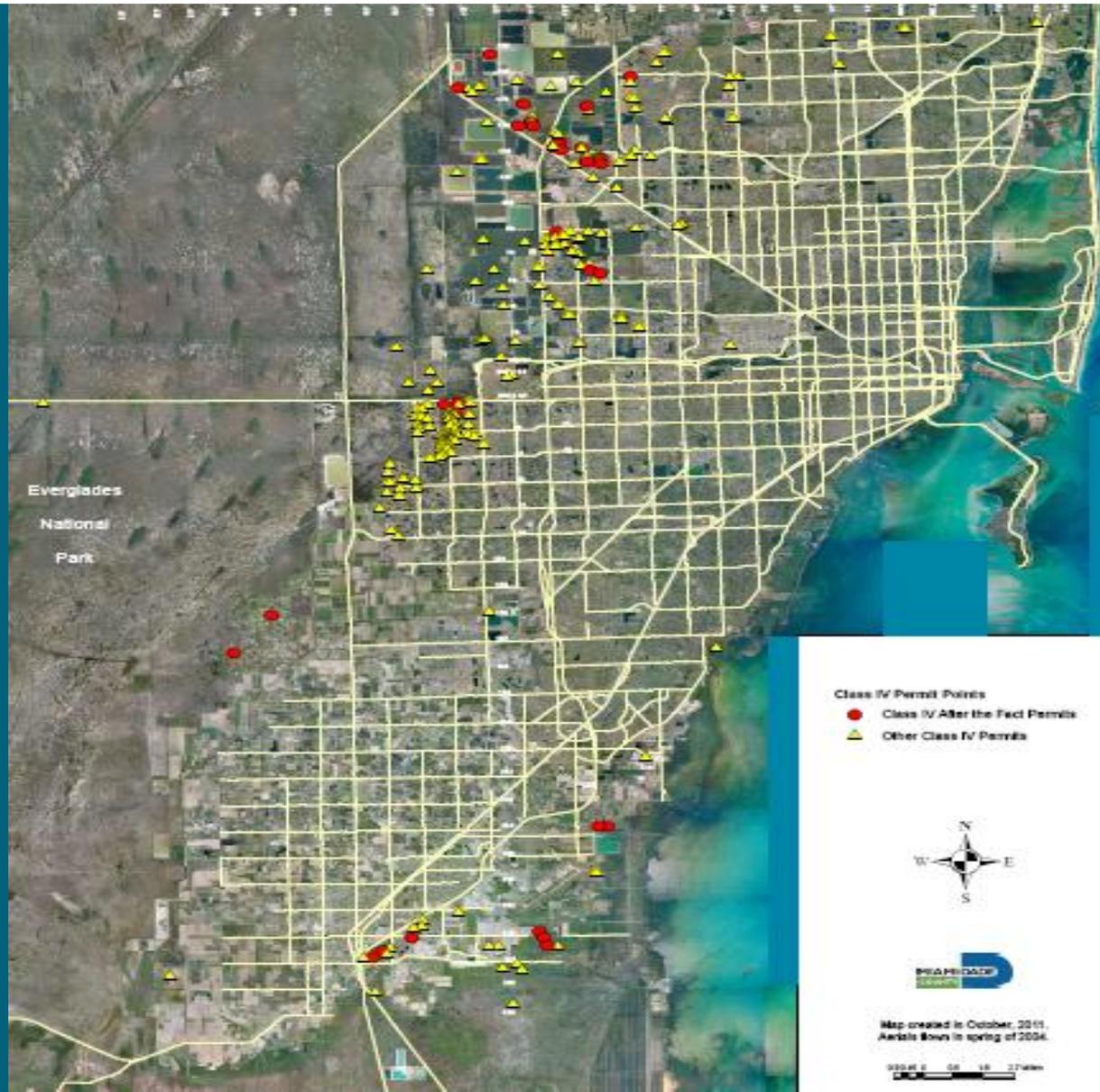
# Class IV Permits Issued – 2001-2011

<b>YEAR</b>	<b>PERMITS ISSUED</b>	<b>ACRES IMPACTED*</b>	<b>ACRES MITIGATED**</b>
2001	61	1001	660
2002	64	1229	1877
2003	50	1555	2726
2004	51	1034	1778
2005	42	2098	4778
2006	54	542	2512
2007	54	1831	2076
2008	34	861	2366
2009	22	352	3125
2010	23	861	4239
2011	14	188	482
<b>TOTALS</b>	<b>469</b>	<b>11552</b>	<b>26619</b>

\* Includes rockmining permits

\*\* Indicates mitigation work performed per year and does not correspond to impacted acres for any given year. Includes purchase of credits at mitigation banks, land purchases and other enhancement and preservation activities.

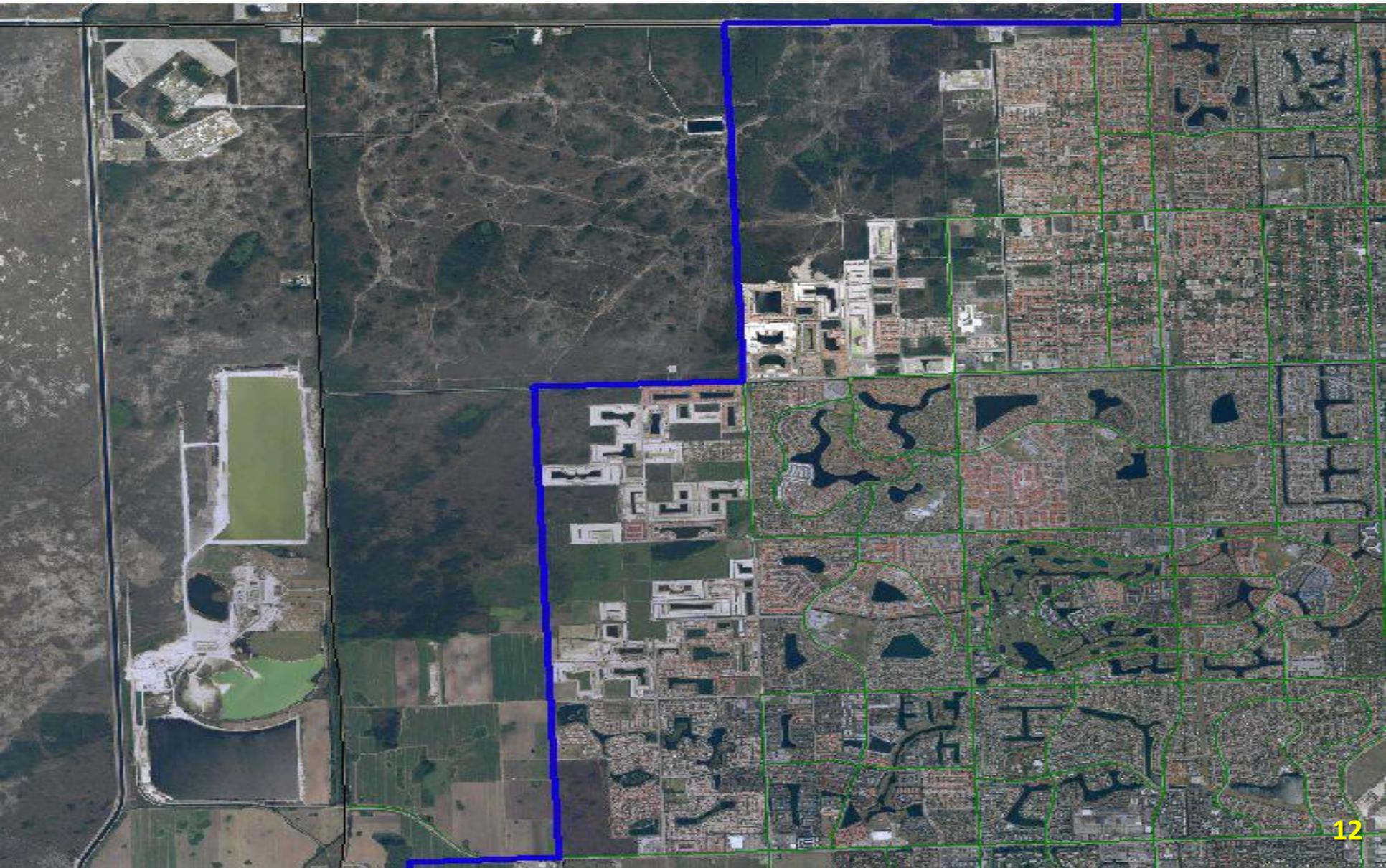
# Class IV Wetland Permits Issued 2001-2011



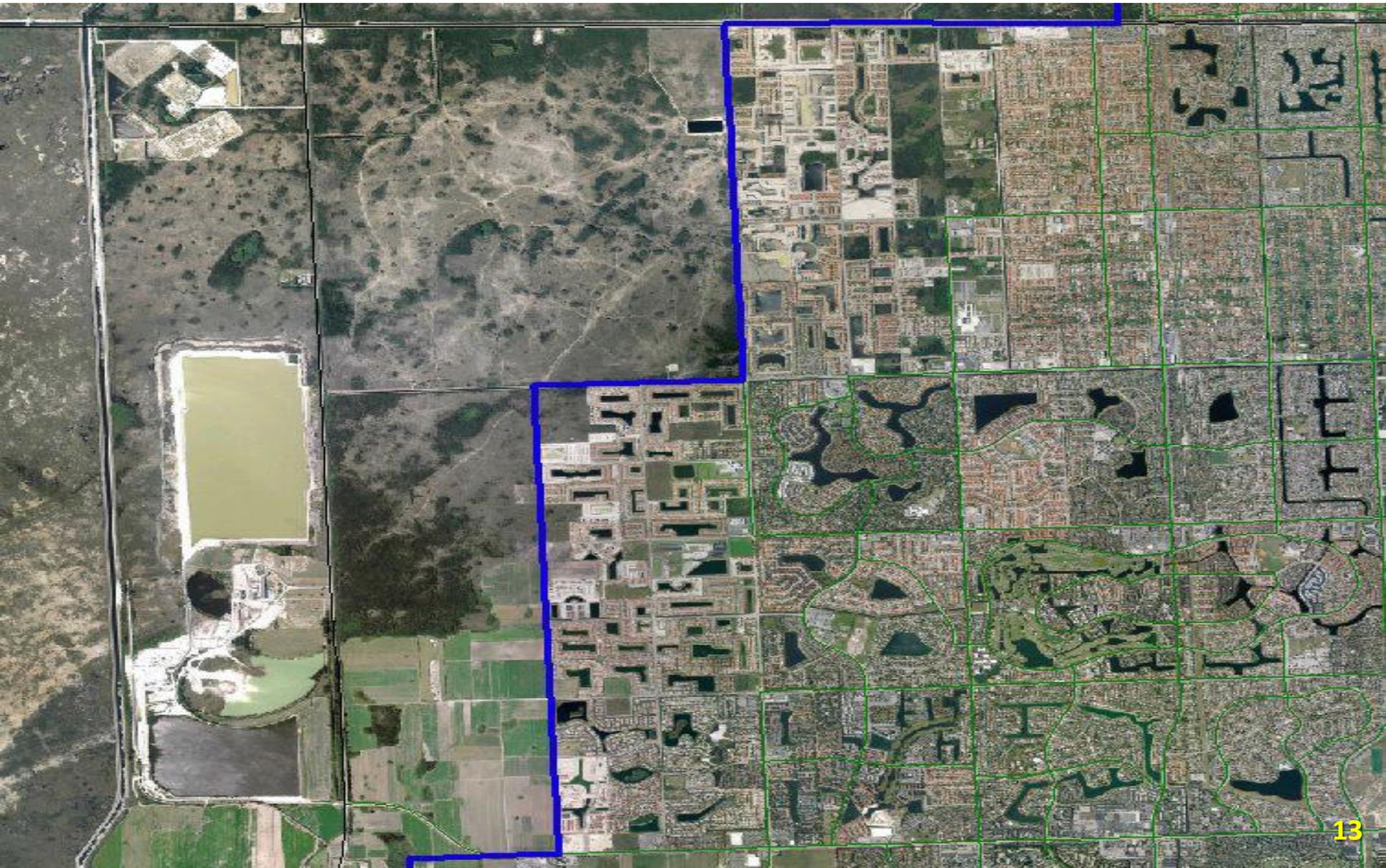
# Bird Drive Basin - 1999



# Bird Drive Basin - 2001



# Bird Drive Basin - 2004



# **Chapter 24 Requirements - Avoidance, Minimization & Mitigation**

- Avoid the impact**
- Minimize the impact**
- Repair, rehabilitate or restore the affected environment**
- Reduce the impact over time by preservation**
- Compensate for unavoidable impacts**

# Compensatory Mitigation Options

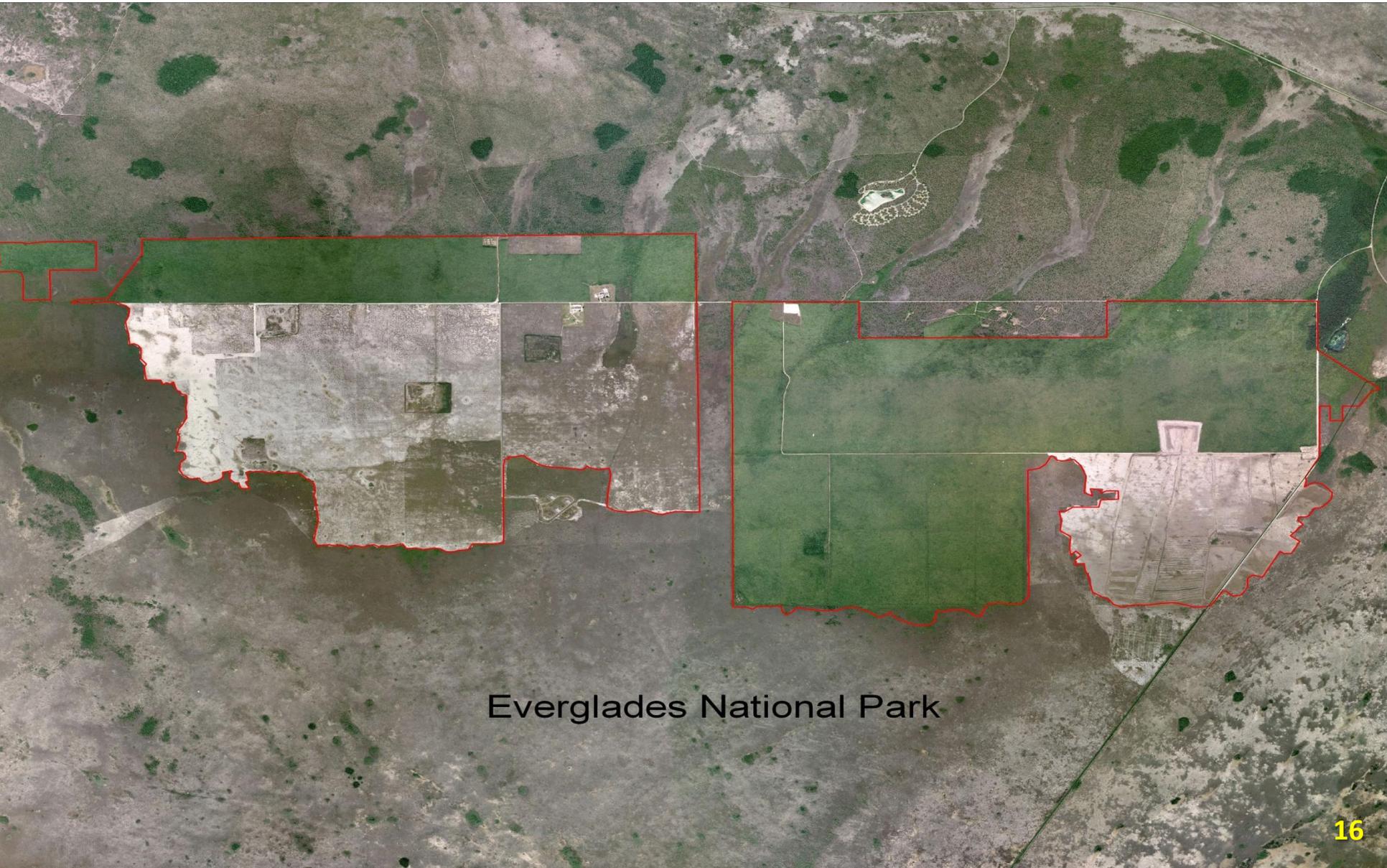
- **On-site/Off-site Preservation**

- Requires available land
- Requires long term maintenance
- Requires institutional control
- May include credit for enhancement activities

- **Purchase of Mitigation Bank Credits**

- Higher up-front costs
- Covers mitigation requirements for life of project

# Hole-in-the-Donut Mitigation Area



Everglades National Park

# Hole-in-the-Donut Mitigation Area



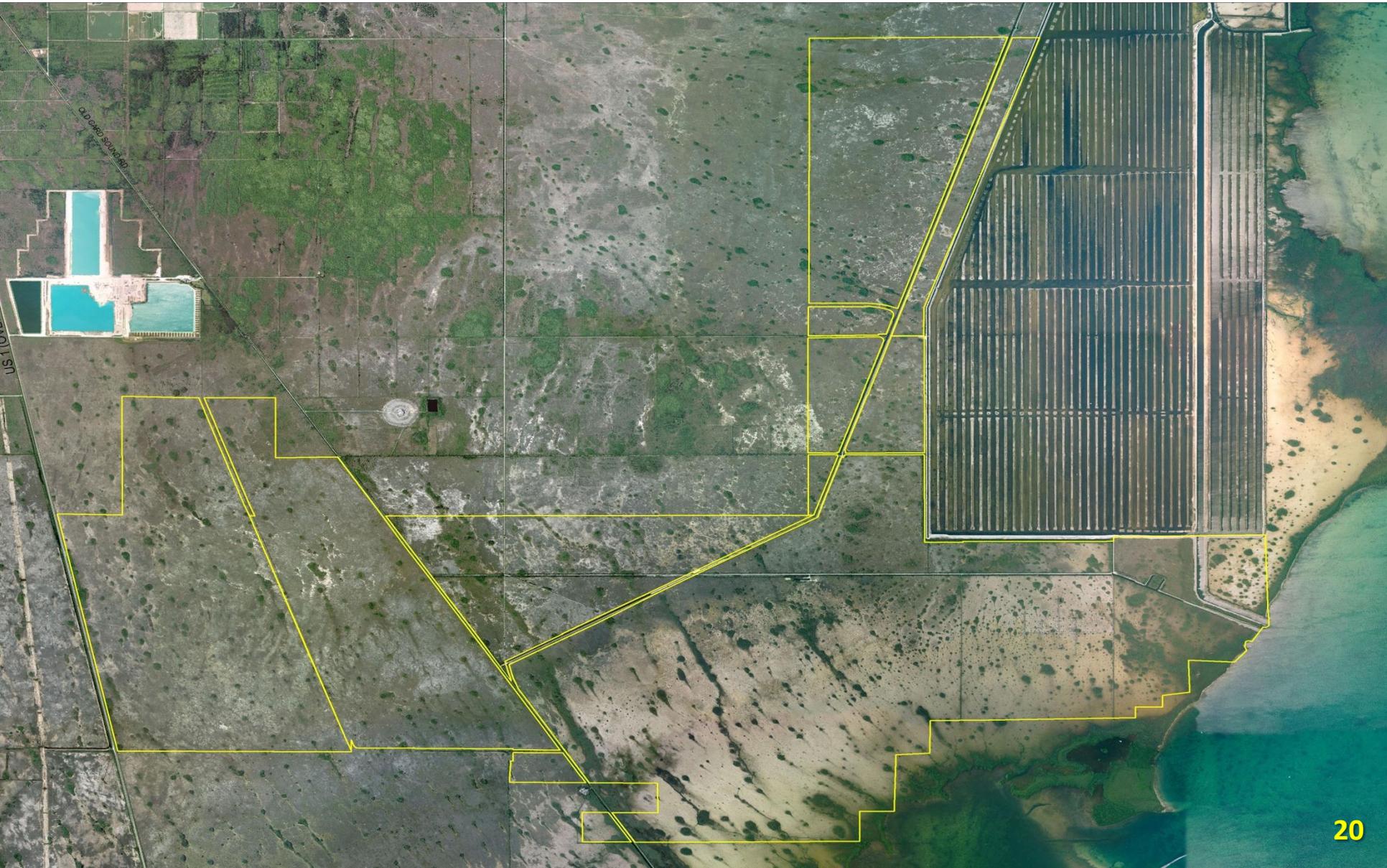
# Hole-in-the-Donut Mitigation Area



# Hole-in-the-Donut Mitigation Area



# Everglades Mitigation Bank



# Everglades Mitigation Bank



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# Everglades Mitigation Bank



# Everglades Mitigation Bank

