

Approved By: \_\_\_\_\_ Date: 3/10/10  
County Administration

## II. FISCAL IMPACT ANALYSIS

### A. Five Year Summary of Fiscal Impact: N/A

Fiscal Years	20____	20____	20____	20____	20____
Capital Expenditures	_____	_____	_____	_____	_____
Operating Costs	_____	_____	_____	_____	_____
External Revenues	_____	_____	_____	_____	_____
Program Income (County)	_____	_____	_____	_____	_____
In-Kind Match (County)	_____	_____	_____	_____	_____
<b>NET FISCAL IMPACT</b>	_____	_____	_____	_____	_____
No. ADDITIONAL FTE POSITIONS (Cumulative)	_____	_____	_____	_____	_____

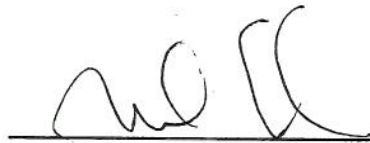


Is Item Included In Current Budget? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Budget Account No.: Fund \_\_\_\_\_ Department \_\_\_\_\_ Unit \_\_\_\_\_  
 Object \_\_\_\_\_ Reporting Category \_\_\_\_\_

### B. Recommended Sources of Funds/Summary of Fiscal Impact: N/A

### C. Departmental Fiscal Review:

## III. REVIEW COMMENTS

### A. OFMB Fiscal and/or Contract Dev. and Control Comments:

 3/8/10  
 OFMB  
 3/9/10  
 Contract Dev. and Control

### B. Legal Sufficiency:

 3/9/10  
 Assistant County Attorney

### C. Other Department Review:

\_\_\_\_\_  
 Department Director

REVISED 9/03  
 ADM FORM 01

(THIS SUMMARY IS NOT TO BE USED AS A BASIS FOR PAYMENT.)



# **PALM BEACH COUNTY WATER RESOURCES TASK FORCE**



**ANNUAL REPORT  
PRESENTED TO:  
BOARD OF COUNTY COMMISSIONERS**

**March 16, 2010**





# Water Resource Task Force

## 13 Members

- ❖ 6- League of Cities
- ❖ 2- Local Water Control Districts
- ❖ 1-Utility
- ❖ 1- Farming
- ❖ 1- Environmental
- ❖ 1-SFWMD Governing Board
- ❖ 1-PBC BCC







## WRTF Purpose

Identify and evaluate opportunities and impediments to providing water supply, conservation, wastewater treatment, and reuse water opportunities in the most efficient and cost effective manner practicable for the residents of

**Palm Beach County**





# Technical/Professional Working Group

**15 Staff Members**

- ❖ Municipalities
- ❖ Drainage Districts
- ❖ Utilities
- ❖ State Agencies
- ❖ County Agencies
- ❖ Trade Associations





# Working Group Purpose

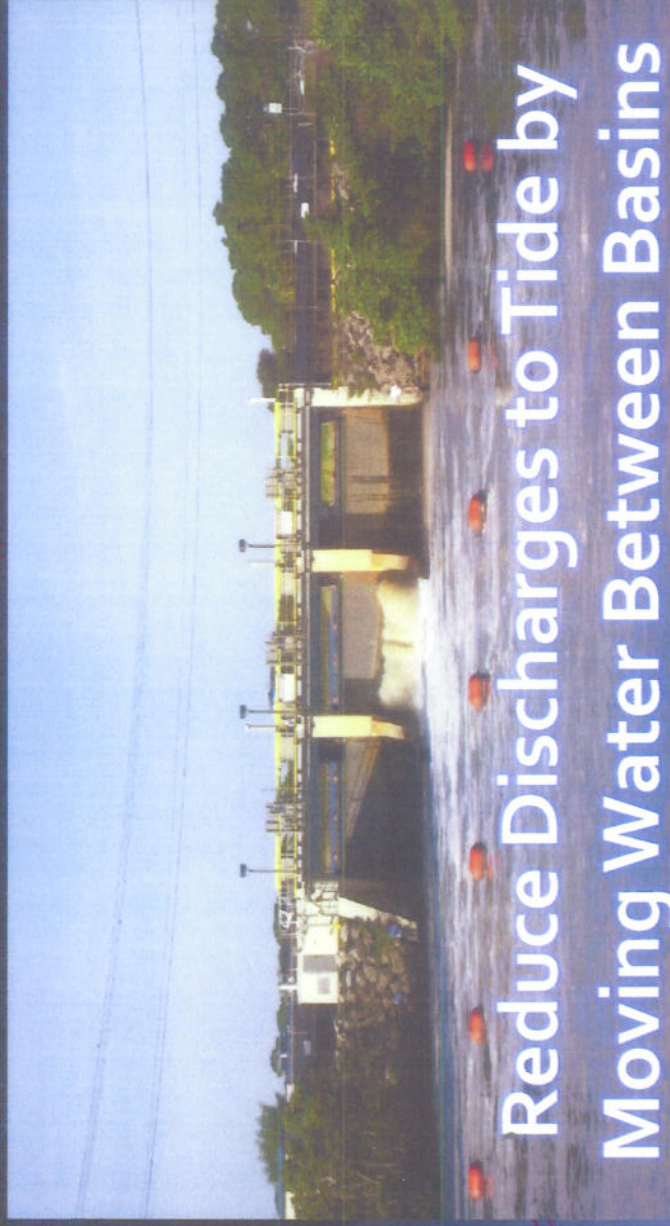
**Advise The Task Force on  
Technical, Environmental &  
Other Professional Matters as  
Requested by the Task Force**





# Pilot Study

## Feasibility of Adjusting Water Controls Through Inter-Basin Transfer



Reduce Discharges to Tide by  
Moving Water Between Basins





# WRTF Supports Three Pilot Study Sites

- ❖ Loxahatchee Groves Water Control District
- ❖ Town of Jupiter Recharge System
- ❖ Pond Cypress Natural Area







# C-51 Basin Reservoir Project



- ❖ Existing C-51 (WPB) Canal Basin cannot store major runoff events
- ❖ Concept makes more water available for multiple uses
- ❖ Results in less water to LWL with less environmental damage





# Confronting Climate Change

## ❖ Two Pronged Approach

- ✓ Investigate The Science (Global & Regional)
- ✓ Coordination with local/state/federal agencies

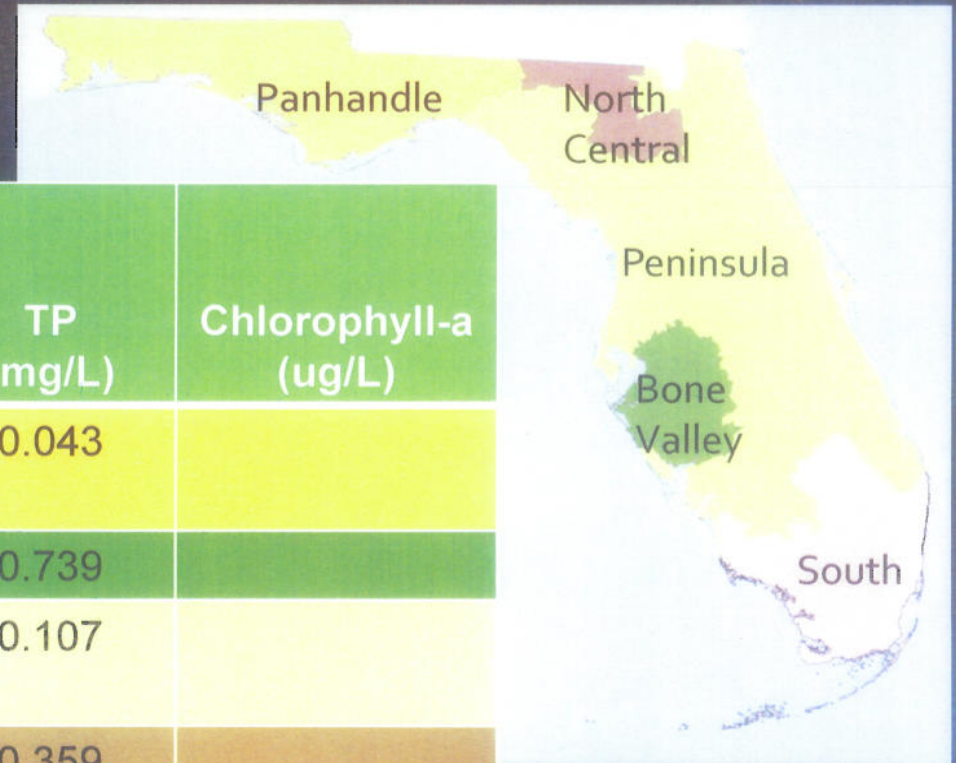
## ❖ Potential Impacts To Existing Facilities

## ❖ Develop A Practical Strategy





# Proposed EPA Criteria (Rivers, Streams, & Canals)



Nutrient Watershed Region	TN (mg/L)	TP (mg/L)	Chlorophyll-a (ug/L)
Panhandle	0.824	0.043	
Bone Valley	1.798	0.739	
Peninsula	1.205	0.107	
North Central	1.479	0.359	
South	1.6	0.042	4.0





# Current Water Quality Data Palm Beach County

## Summary of Geometric Mean January 1999 - December 2008

Watershed	Site	Total Nitrogen mg/L	Total Phosphorus mg/L	Chlorophyll-a ug/L
C-15	31E	1.8	0.259	19.6
	31C	1.6	0.143	17.8
	C15S40	1.1	0.131	9.2
C-16	22	1.1	0.063	6.6
	24	1.0	0.062	10.4
	27B	1.6	0.177	13.2
	27A	1.4	0.163	13.7
	C16S41	1.1	0.083	6.5
C-17	12A	1.3	0.063	12.6
	C17S44	1.0	0.036	9.2
C-18	16	1.0	0.045	3.8
	15	1.0	0.030	2.8
	C18G92	0.9	0.019	3.3
	C18S46	0.8	0.022	3.6
C-51	38B	1.9	0.097	5.8
	37B	1.4	0.068	4.4
	C51S155	1.3	0.069	4.6



Values exceeding proposed EPA water quality standards  
TN 1600 PPB, TP 42 PPB, Chl-a 4 PPB

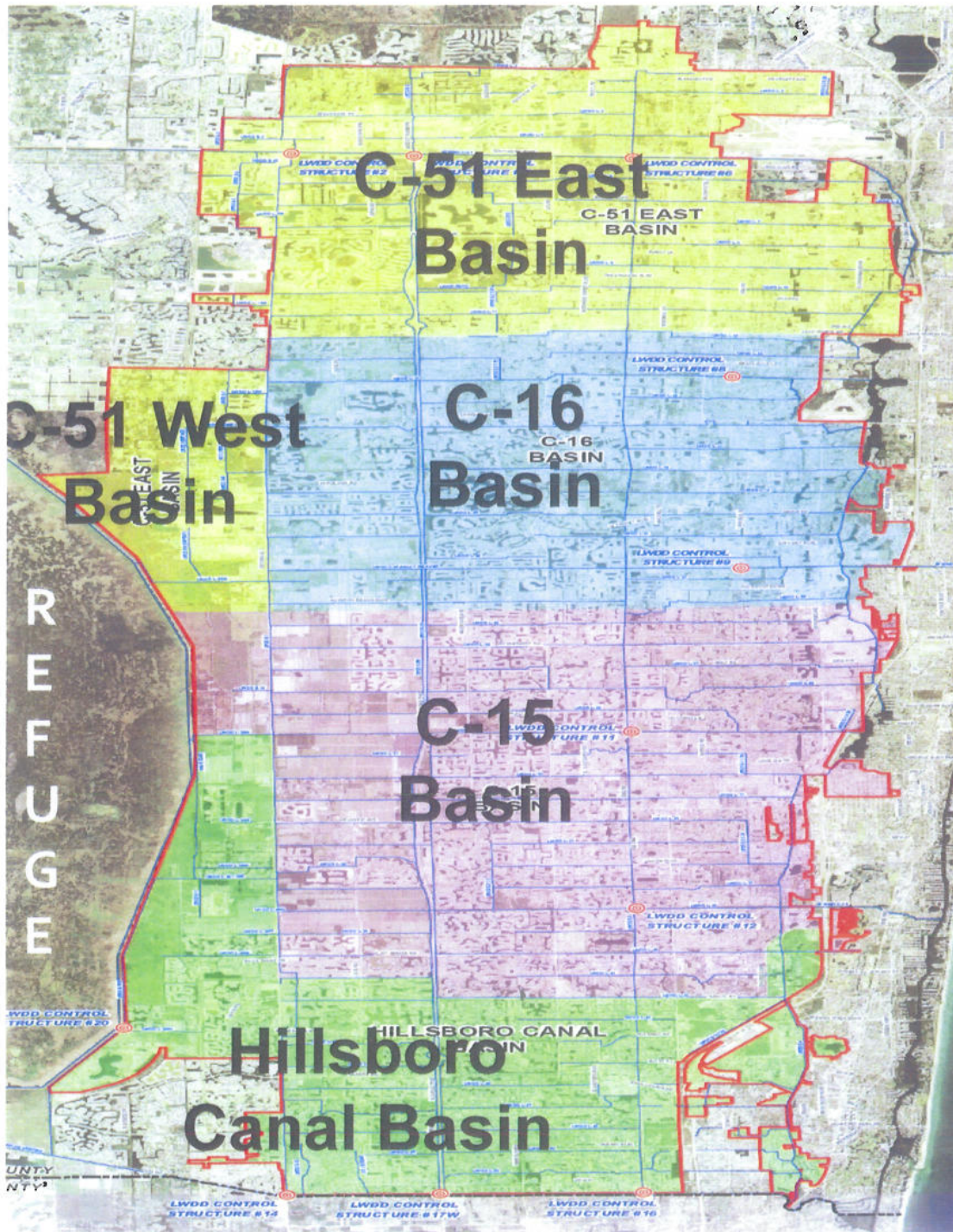




# Potential Impacts of EPA Criteria to PBC

- ❖ Enormous Costs for Stormwater Retrofits
- ❖ Short Implementation Schedule (20-Yrs)
- ❖ Significant Upgrades to Wastewater Facilities
- ❖ Curtailing of Reclaimed Water Program
- ❖ Limited Inter-Basin Transfers
- ❖ Significant Increases in NPDES Permitting Effort & Fees

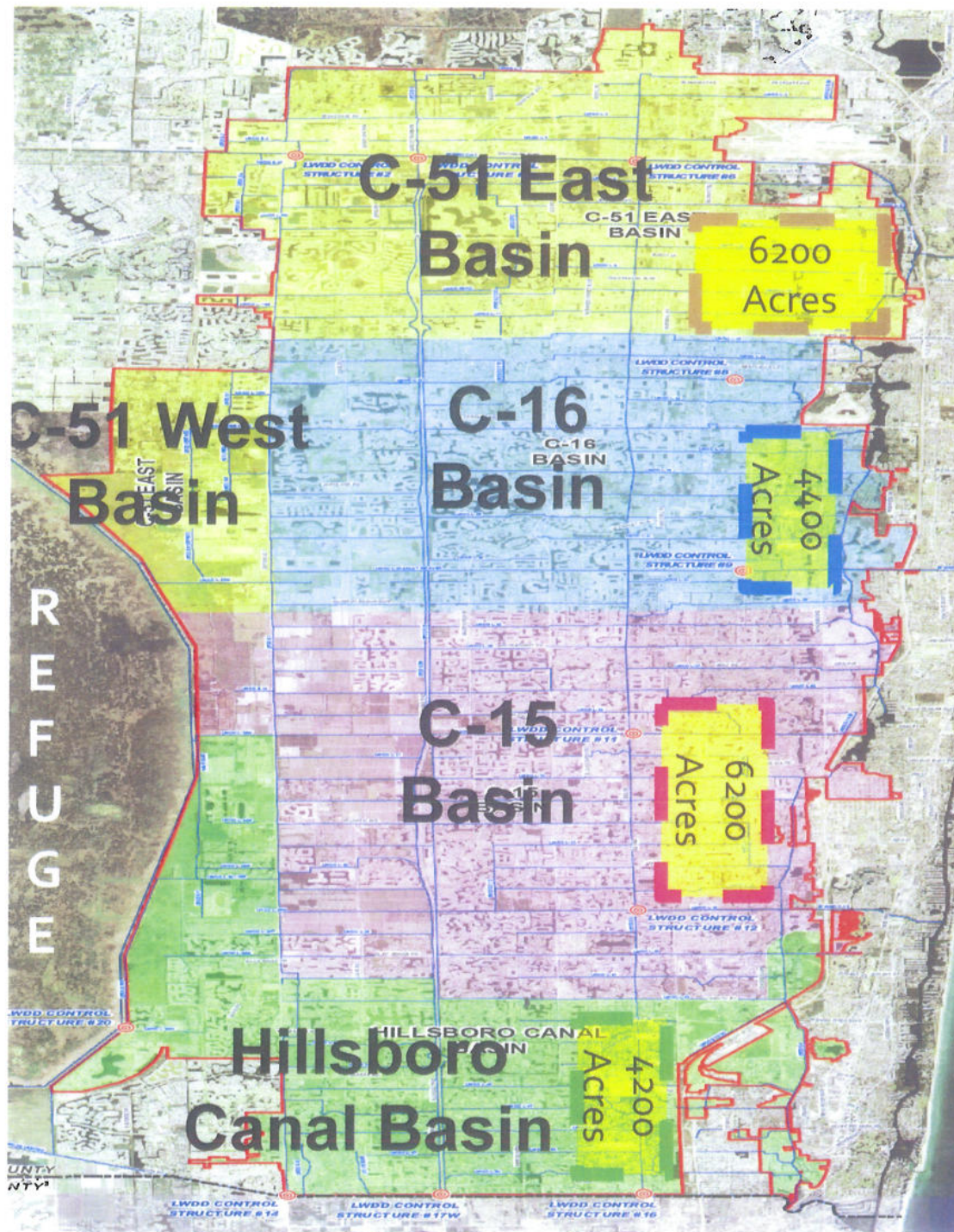




## Stormwater Retrofit?

- ❖ LWDD
- ❖ 4 Major Drainage Basins
- ❖ Where Should We Place About 21,000 STA Acres Needed for Water Treatment?
- ❖ STA Locations Not Determined!





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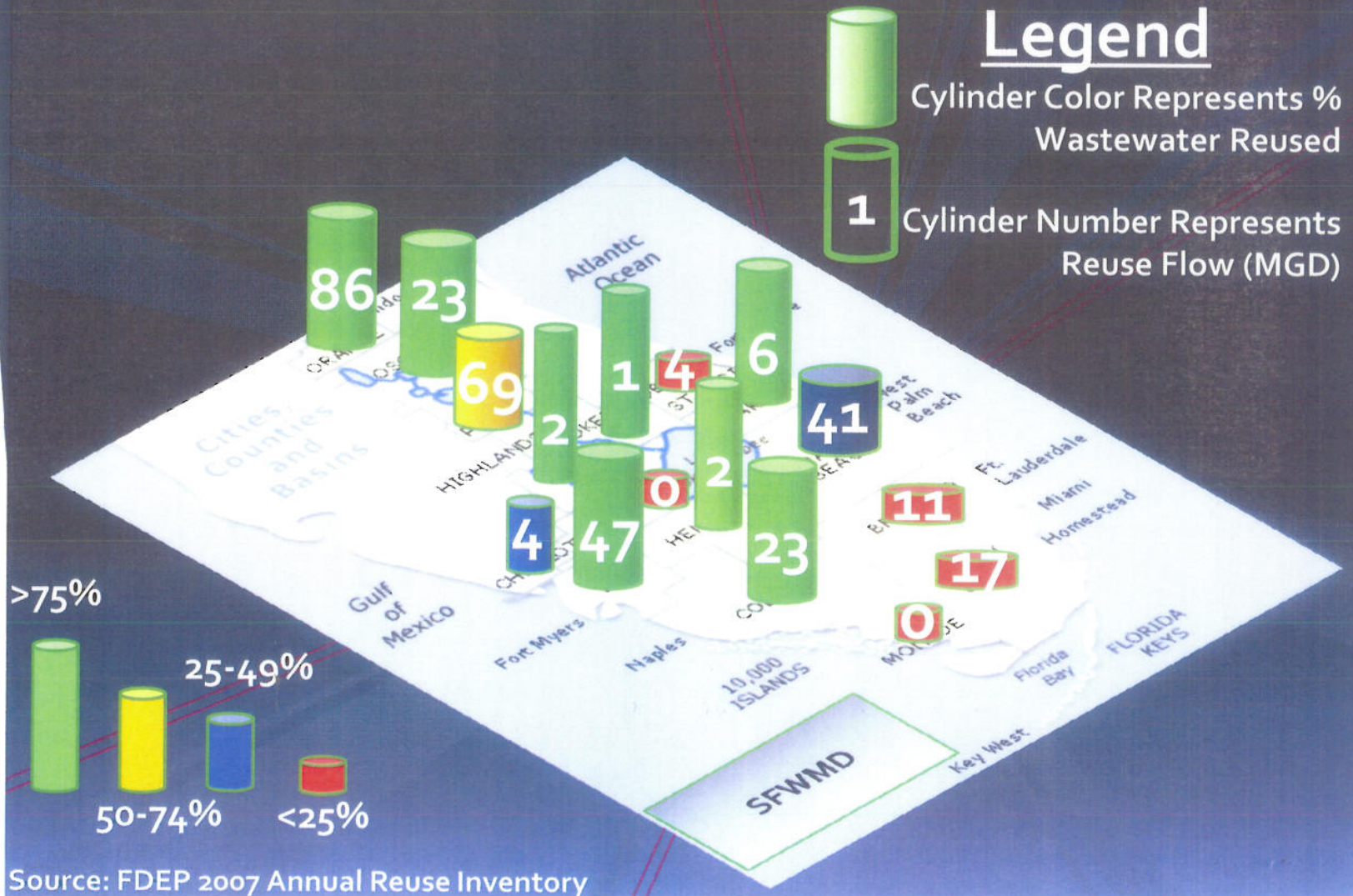


# Wastewater Reuse 2007 Comparison

## Legend

Cylinder Color Represents %  
Wastewater Reused

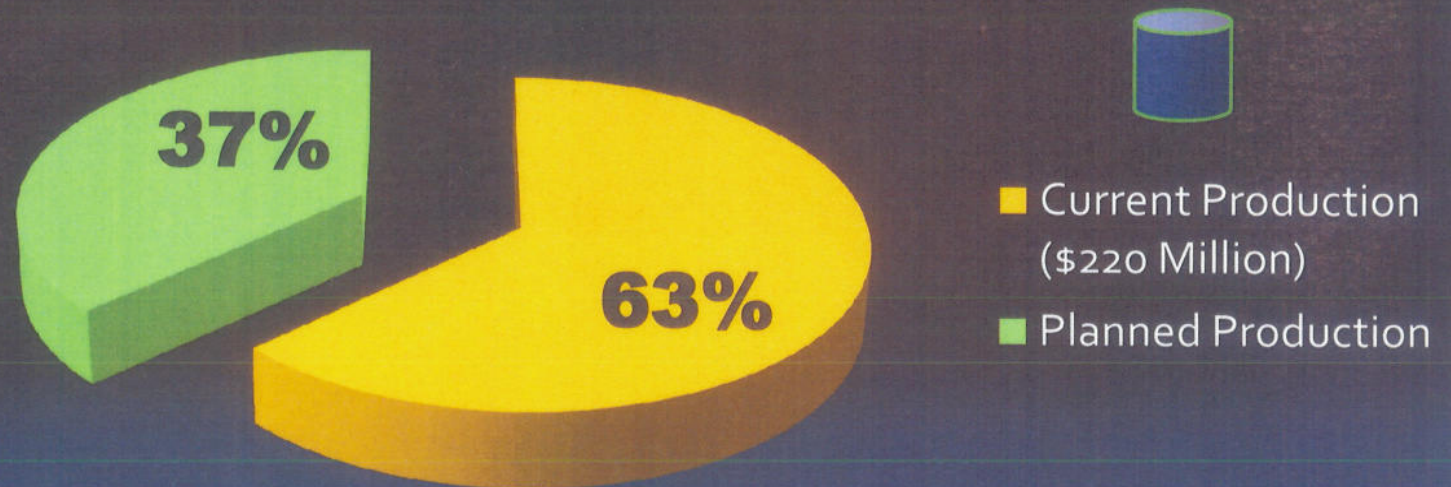
Cylinder Number Represents  
Reuse Flow (MGD)







# Palm Beach County Water Utilities Department Reclaimed Water Production







# Water Resource Task Force

## Other Presentations

- ❖ Loxahatchee River Issues
- ❖ Arthur R. Marshall Refuge Issues
- ❖ G-160 Issues
- ❖ Wellington CERP Compliance
- ❖ LWDD Issues
- ❖ NPBC CERP, Part 1 Update
- ❖ Ocean Outfalls
- ❖ Water Supply Plans
- ❖ WEAP Model





# Accomplishments

- ❖ Endorsed C-51 Reservoir Feasibility Study
- ❖ Endorsed Inter-Basin Transfer Pilot Studies
- ❖ Joint Meeting with Broward County WRTF
- ❖ Two Working Group Reports
- ❖ Opened Dialogue with Government Entities to Discuss Relevant Water Resources Issues





# WRTF Chair Observed “Truisms”

- ❖ Water Knows No Political Boundary
- ❖ Many Water Resource Entities
- ❖ Other Than PBC-WRTF, No Other Systemic Water Resource Coordination Entity Exists



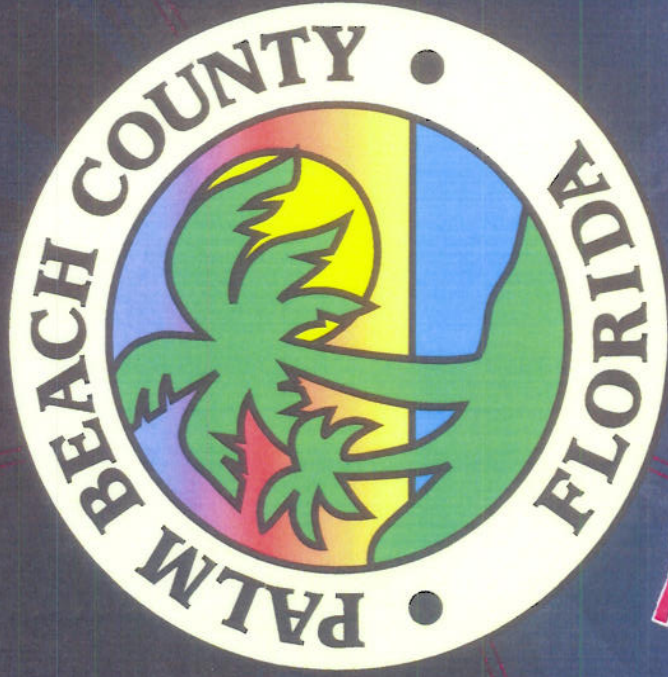


## Conclusion

**Due to the successes of this past year,  
the Palm Beach County Water  
Resources Task Force can represent a  
critical link for future County-Wide  
water resource coordination !**



# Questions?



# Thank You