



Caloosahatchee Estuary and Everglades West Coast Basins **IMPLEMENTATION KICK-OFF MEETING**

July 22nd, 2009 ❖ 9:00 am

Southwest Florida Regional Planning Council Offices

First Floor Conference Room

1926 Victoria Avenue, Ft. Myers Florida 33901

Meeting Overview

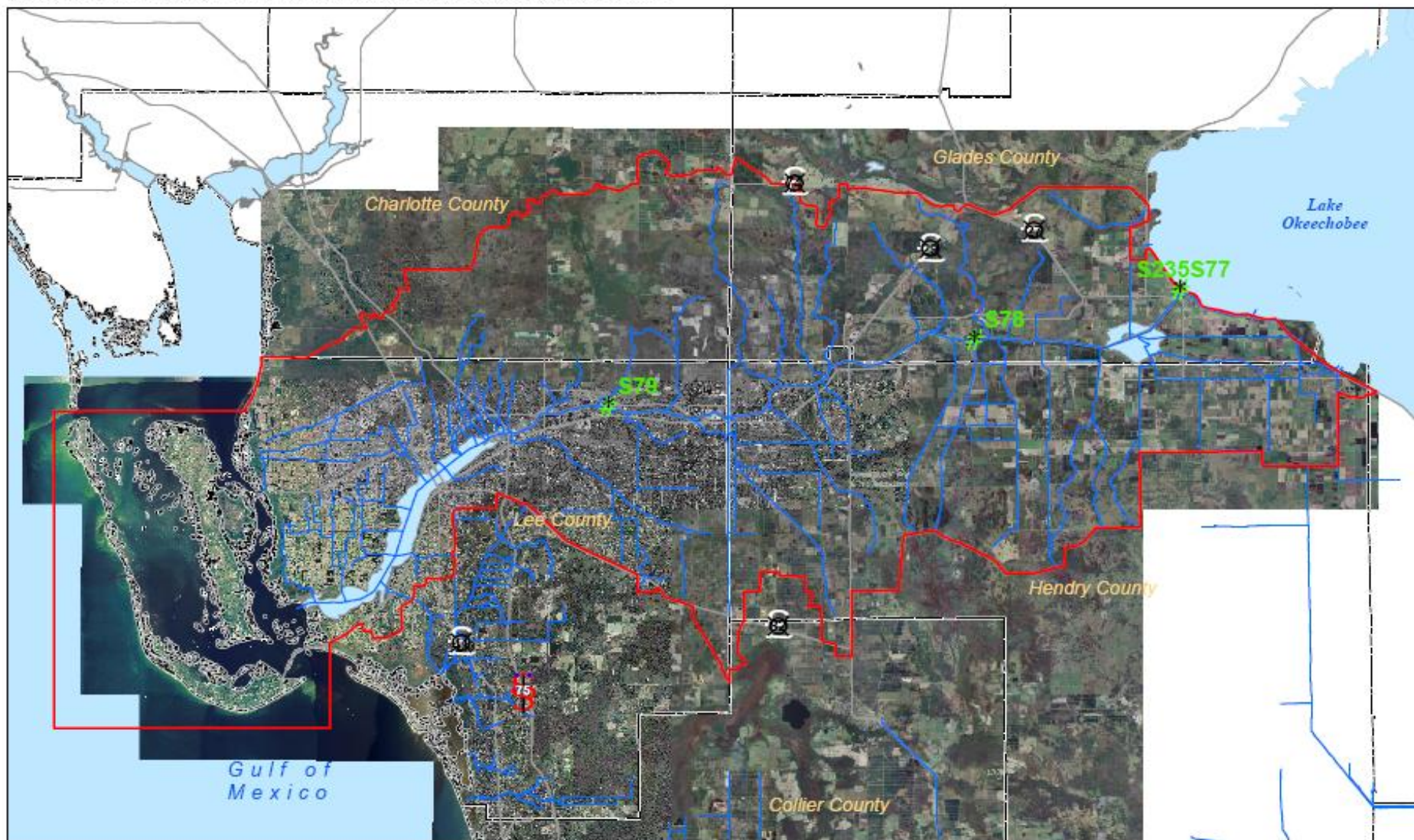
- Opening Remarks and Introductions
- Overview of TMDLs
- Transition from TMDL to Implementation
 - ❖ BMAP Process
 - ❖ Components of a BMAP
- Everglades West Coast Basin
 - ❖ TMDL Status
 - ❖ Potential Approaches
 - ❖ Next Steps & Schedule

Break

- Caloosahatchee River Basin
 - ❖ TMDL Status
 - ❖ Potential Approaches
 - ❖ Next Steps & Schedule

Caloosahatchee Estuary





Legend

- Major Structures
- Main Streams
- Caloosahatchee River Basin



0 2 4 8 Miles



Figure 1
Caloosahatchee River Basin
Study Area

Area of Interest: Tidal Caloosahatchee

38% of 1,339 square mile
Caloosahatchee River Basin

75% is in Lee County,
25% in Charlotte County

Main population centers:

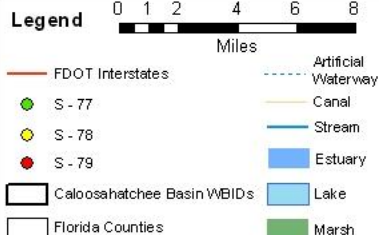
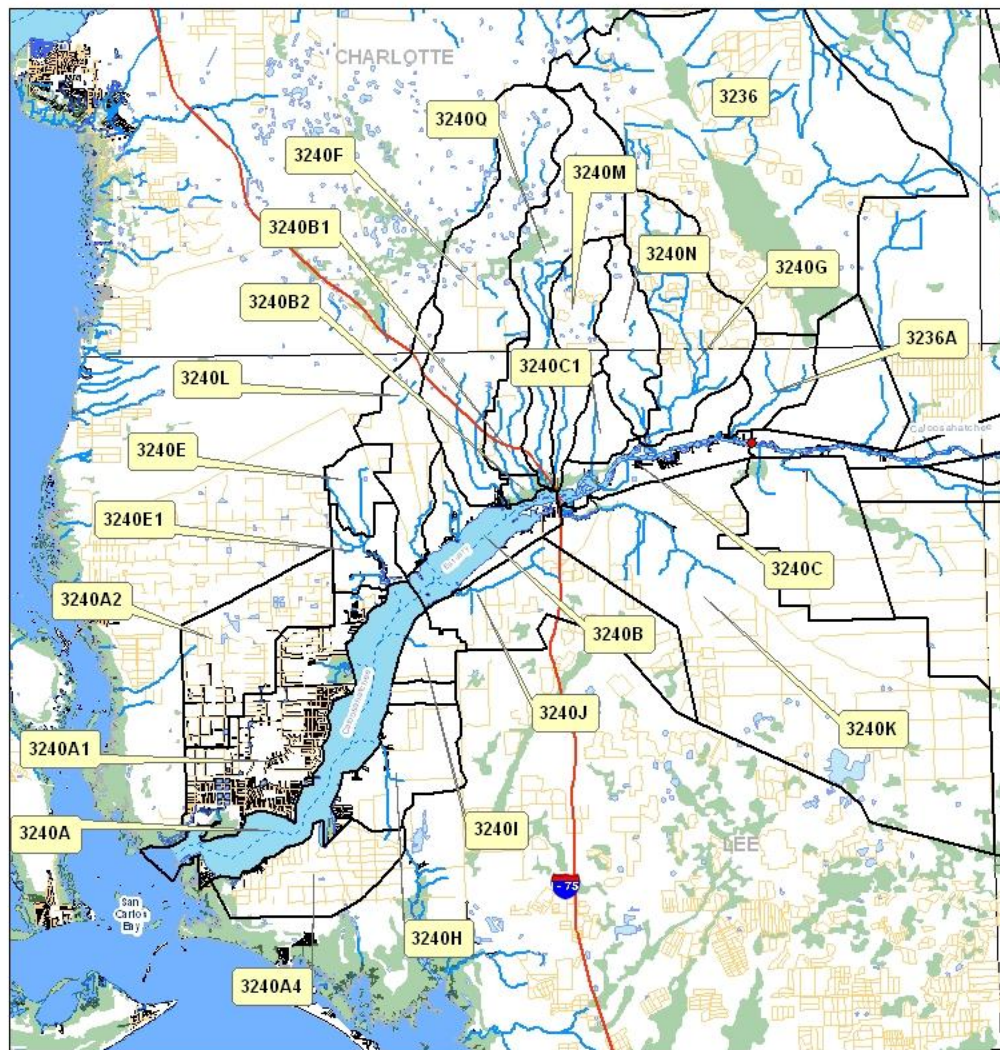
Cape Coral (pop. 151,389)

Fort Myers (pop. 40,214)

North Fort Myers (pop. 60,531)

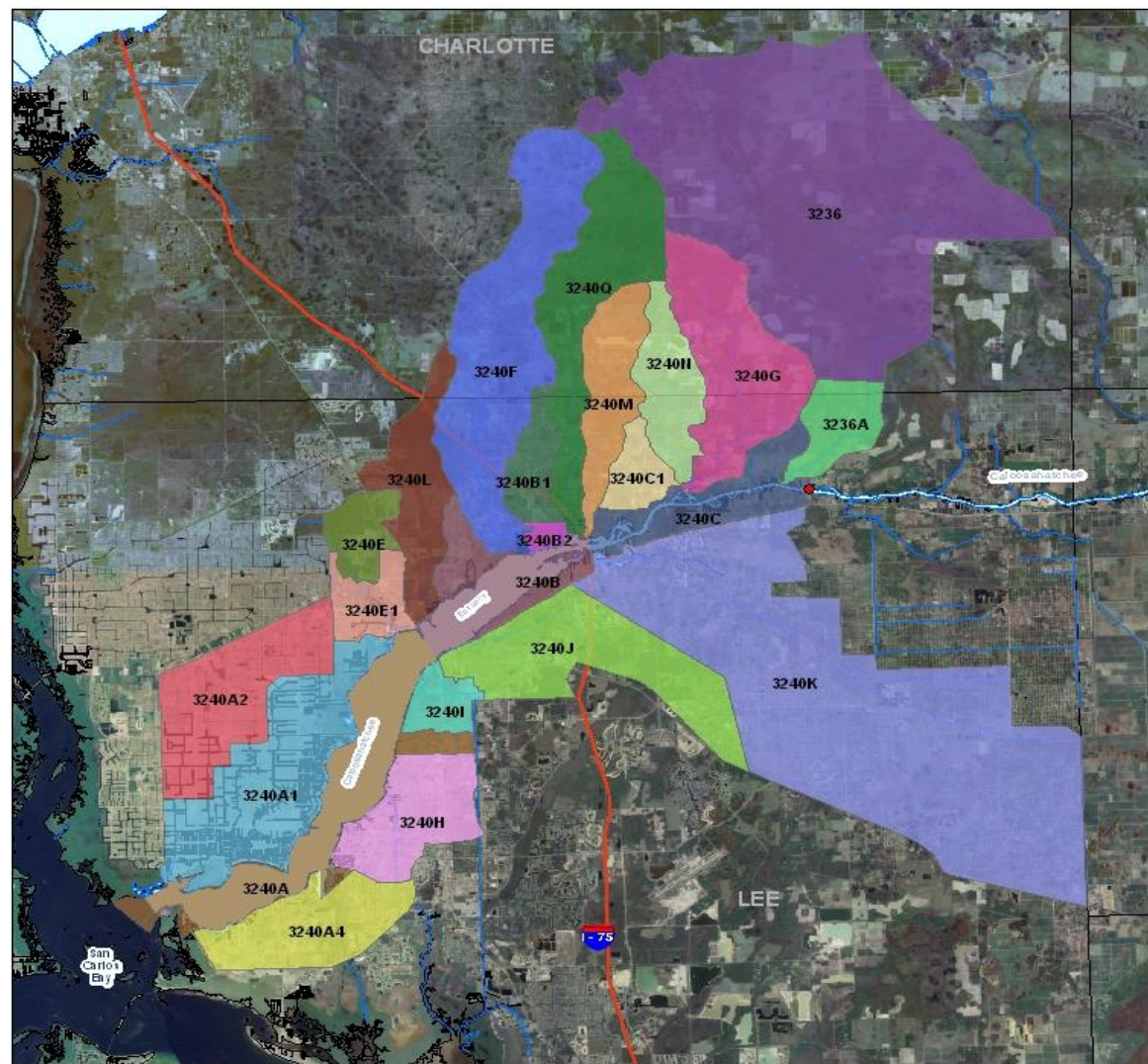
23 WBIDs

Estuary Main Stem is
Approximately 26 miles



Map prepared August 1, 2008 by the Bureau of Watershed Restoration, Division of Water Resource Management. This map is a representation of ground conditions and not intended for delineation or analysis of the features shown. For more information, please contact Kevin O'Donnell at (850) 246-8469 or kevin.odonnell@dep.state.fl.us.





WBIDs in this TMDL:
Caloosahatchee River
Estuary main stem
WBID 3240A
WBID 3240B
WBID 3240C

Other Caloosahatchee
River WBID TMDLs-

September 2010

Orange River

❖ Lee County

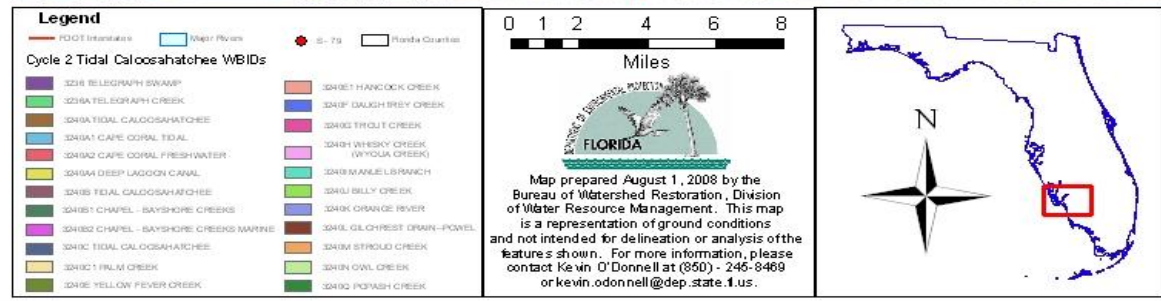
❖ 104 sq. miles

Telegraph Swamp

❖ Charlotte and Lee

County

❖ 90 sq. miles



East Caloosahatchee

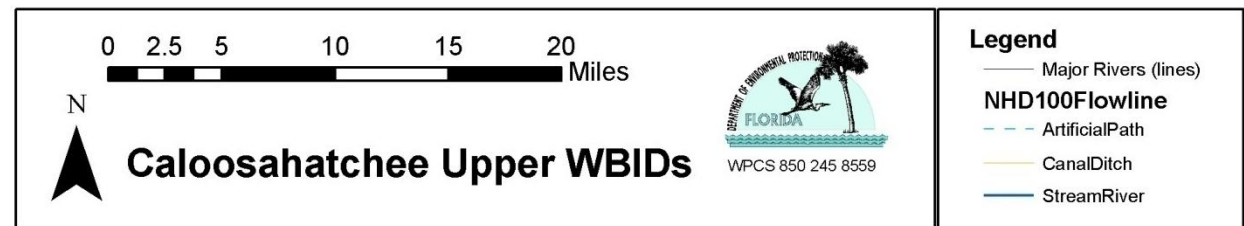
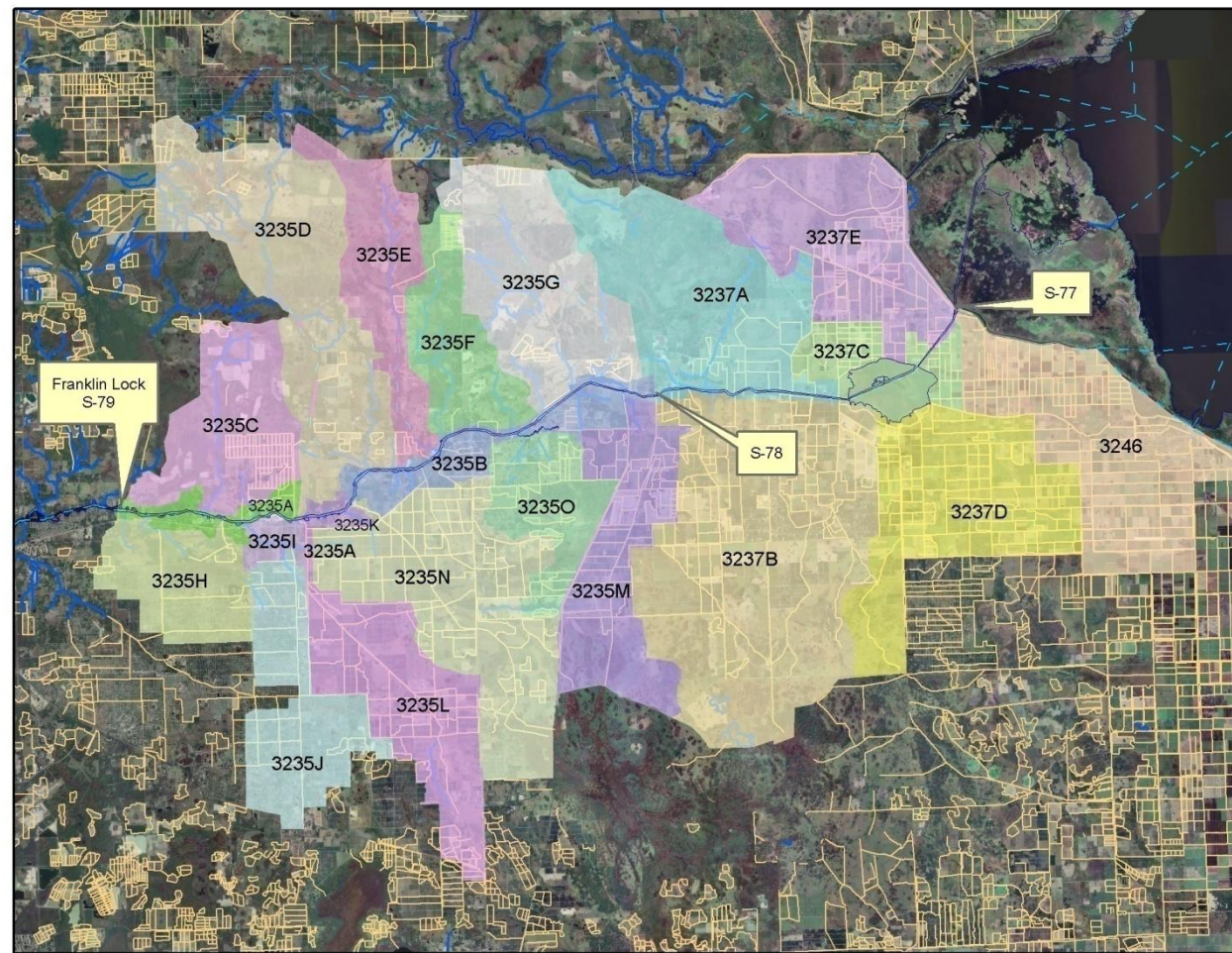
❖ Glades and Hendry

❖ 446 sq miles

West Caloosahatchee

❖ Glades, Hendry, Lee and Charlotte Counties.

❖ 508 sq. miles



Caloosahatchee Estuary TMDL 3240A, 3240B, 3240C

■ TMDL for Nutrients

- ❖ **Causative Pollutant** – Total Nitrogen (TN)
- ❖ **Target** : Seagrass light requirements in San Carlos Bay

- ## ■ TMDL= 23% Reduction in Total Nitrogen (over the entire river basin)

Caloosahatchee Estuary TMDL

TMDL $\cong$ WLAs Wastewater + WLAs MS4 Stormwater
+ LAs + MOS

WBIDs	TMDL Total Nitrogen (lbs/year)	WLA		LA Reduction (Percent)	MOS
		Wastewater	NPDES Stormwater (% Reduction)		
3240A 3240B 3240C	9,085,817	N/A	23%	23 %	Explicit

Existing Loads in the Tidal Caloosahatchee Basin

Source of Total Nitrogen		Existing Loading	
		Load (lb/yr)	% of Total
Upstream of S-79			
	Lake Okeechobee at TMDL	6,222,155	52.7%
	Load to be Removed from Lake O	782,224	6.6%
	NPS Loading	2,731,660	23.2%
Subtotal From S-79		9,736,039	82.5%
Estuarine (Below S-79)			
	WWTP Loads	136,875	1.2%
	NPS Loads	1,926,848	16.3%
Subtotal Below S-79		2,063,723	17.5%
Total to Estuary		11,799,762	100.0%
Load at TMDL		9,085,817	77.0%

Caloosahatchee Estuary TMDL

- FDEP issued a “Notice of Proposed Rulemaking”
 - ❖ 21-day Period to Request a Hearing To Challenge Proposed Rule (TMDL) –
Ended Fri., July 10, 2009
- Adoption of TMDL by August 2009
- Submission to EPA for Approval After Adoption

Caloosahatchee Estuary TMDL 3240A, 3240B, 3240C

- Legislature mandated the accelerated development of a nutrient TMDL for the tidal Caloosahatchee River
- Watershed Protection Plan and BMAP must be coordinated
- Targets from the TMDL need to be met

TMDL Schedule for Caloosahatchee *Freshwater Basin & Tributaries*

- Group 3 draft impaired waters list
available for public comment – Fall 2009
 - ❖ Public Meetings
- TMDL development – 2010

Next Steps

■ Data Needs:

- ❖ SFWMD WPP New BMPs Including % Reduction
- ❖ Local BMPs Included in WWP and % Reduction
- ❖ Projects – ongoing, new, planned etc.
- ❖ Current research/studies in area.

■ Near-term Implementation Steps

- ❖ Finalize TMDL
- ❖ Create List of Projects and Activities
- ❖ Create Basin Working Group

<ftp://ftp.dep.state.fl.us/pub/water/BMAP/Caloosahatchee/>

Next TWG Meeting

■ Tentative Date

❖ Date and Time - Sept. 24th, Oct. 28th

❖ Meeting Location

First BWG Meeting

■ Meeting Focus

- ❖ TMDL and BMAP Process Overview
- ❖ BWG Goals and Procedures
- ❖ Sunshine Law Requirements

■ Tentative Date

- ❖ Date and Time – Dec. 8th 2009
- ❖ Meeting Location