

Addressing Water Quality Impairments Basin 13 Leadership Forum

March 21, 2019

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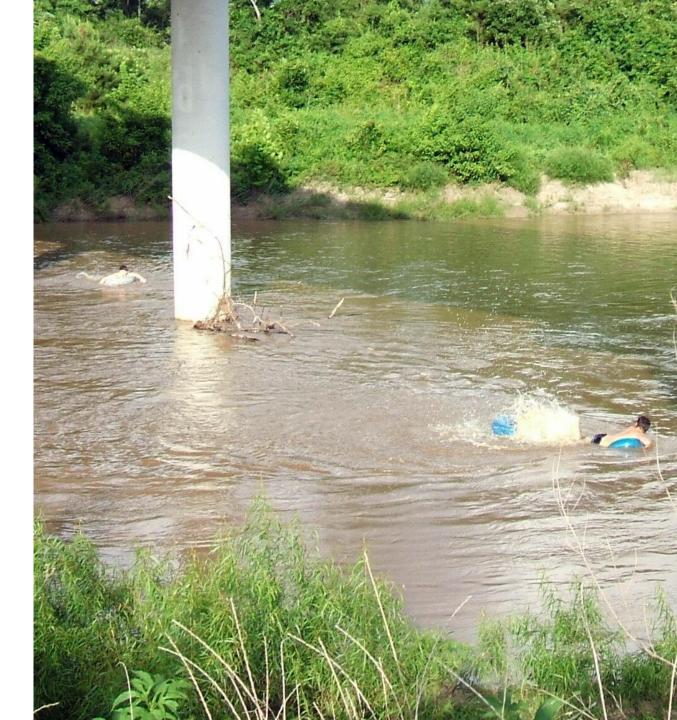
Agenda Basin 13 Leadership Forum

- 10:00 10:05
- 10:05 10:35
- 10:35 11:25
- 11:25 11:45
- 11:45 12:00
- 12:00

- Welcome Opening Remarks
- :35 Review Basin 13 Project Area
 - Group Housekeeping
 - Implementation Activities
 - Wrap Up and Next Steps
 - Adjourn

Why are we here?

Portions of the San Bernard River, Caney Creek and Linnville Bayou do not meet the State's Water Quality Standards for Contact Recreation.



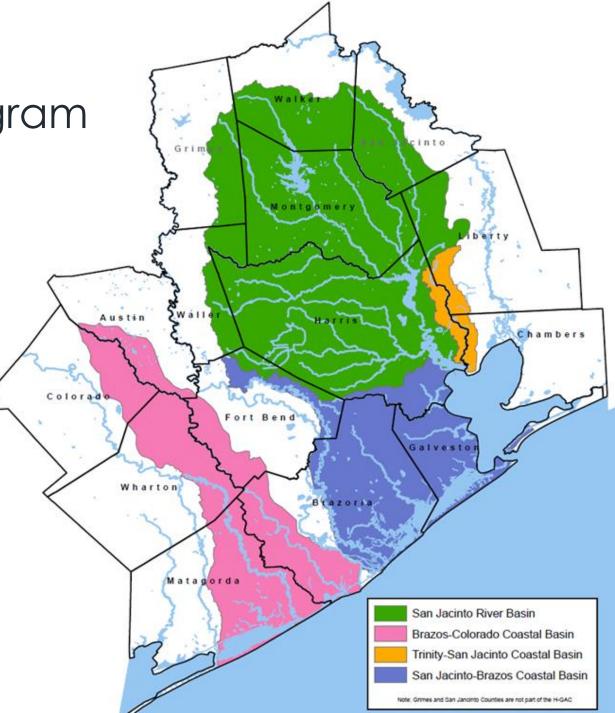
H-GAC's Clean Rivers Program

Clean Rivers Program Assessment Area

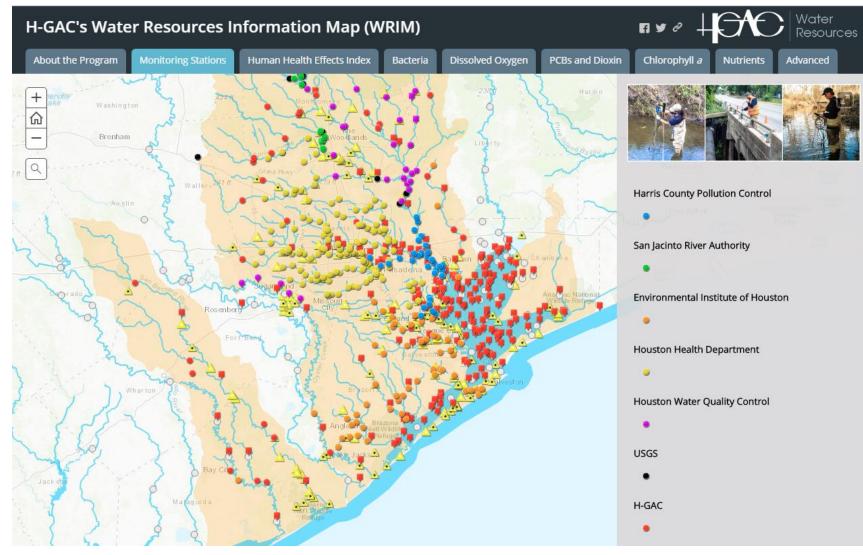
- 15 counties
- 16,000 miles of streams and shoreline
- Population 5+ million

Basin 13 Project Area

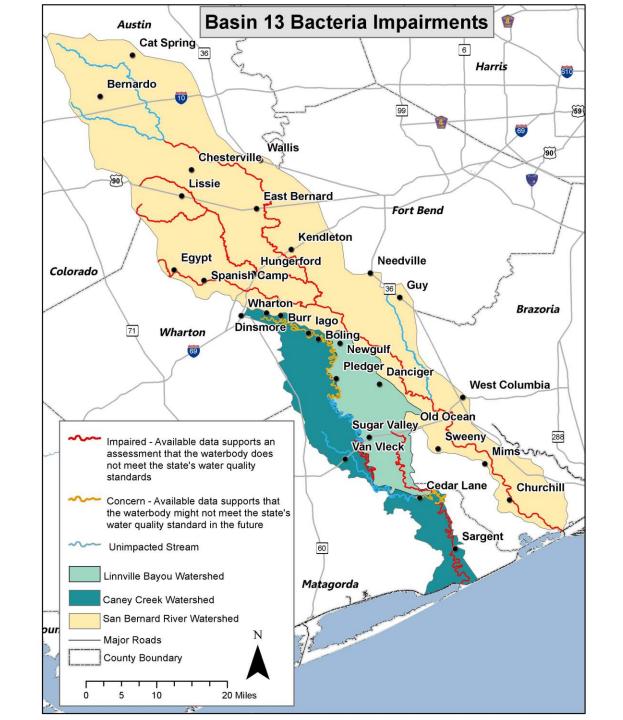
- Six counties
- 20-plus cities / communities



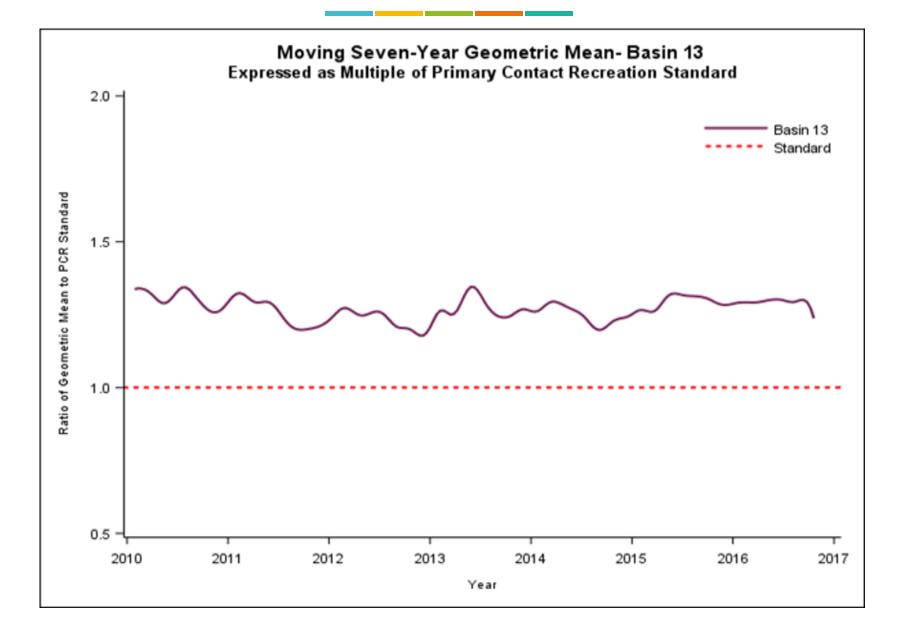
Coordinated Regional Monitoring



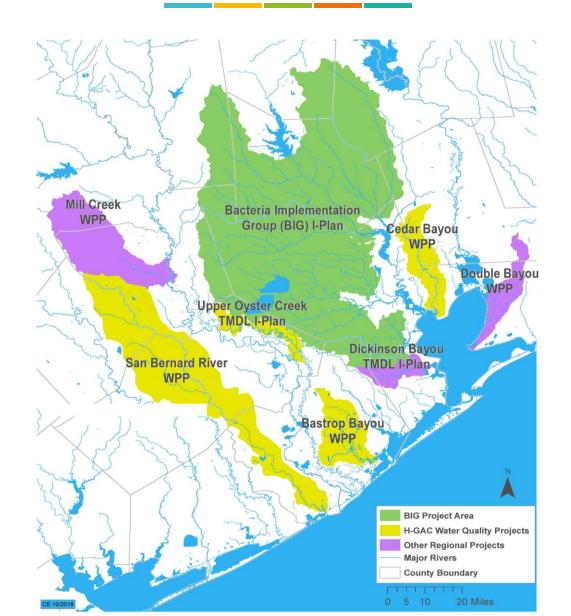
http://www.h-gac.com/go/wrim



Bacteria Trends



Approved Watershed-based Plans



Types of Watershed-based Plans

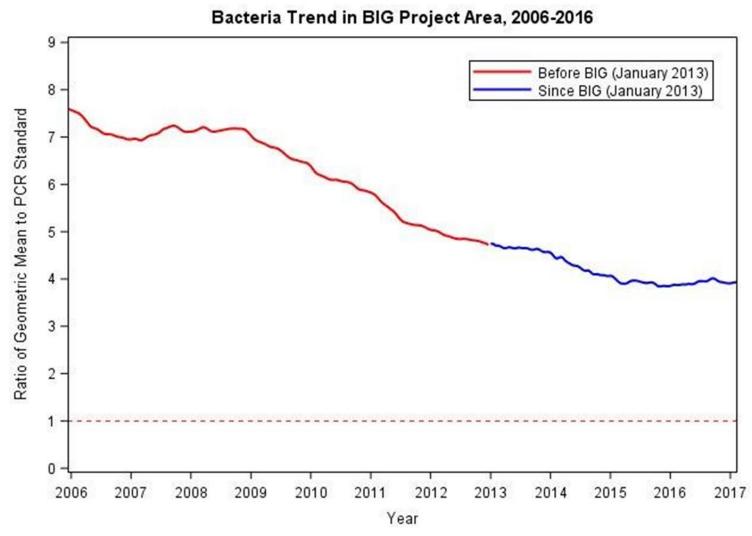
TMDL / I-Plan

Mostly Voluntary
Single Pollutant
Mostly Urban Watersheds
Short Time-Frame
Permittees can be ahead of the curve

WPP

- Voluntary
- Typically Address multiple concerns
- Mostly Rural Watersheds
- Longer Time-Frame
- Not typically used by State Permit Process
- ✤ 319 Funding Source

Do Watershed-based Plans Work?



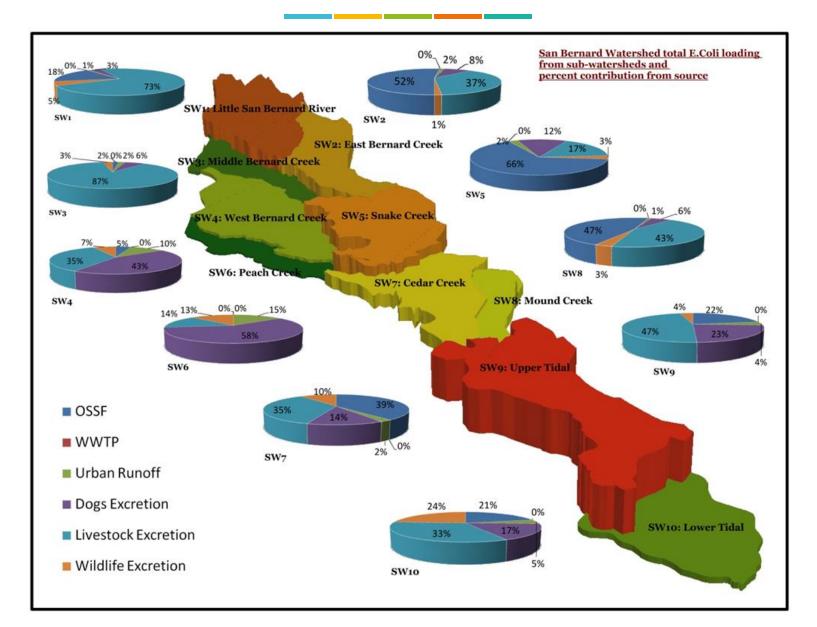
Dotted Red Line represents the Primary Contact Recreation Standard

Possible Bacteria Sources

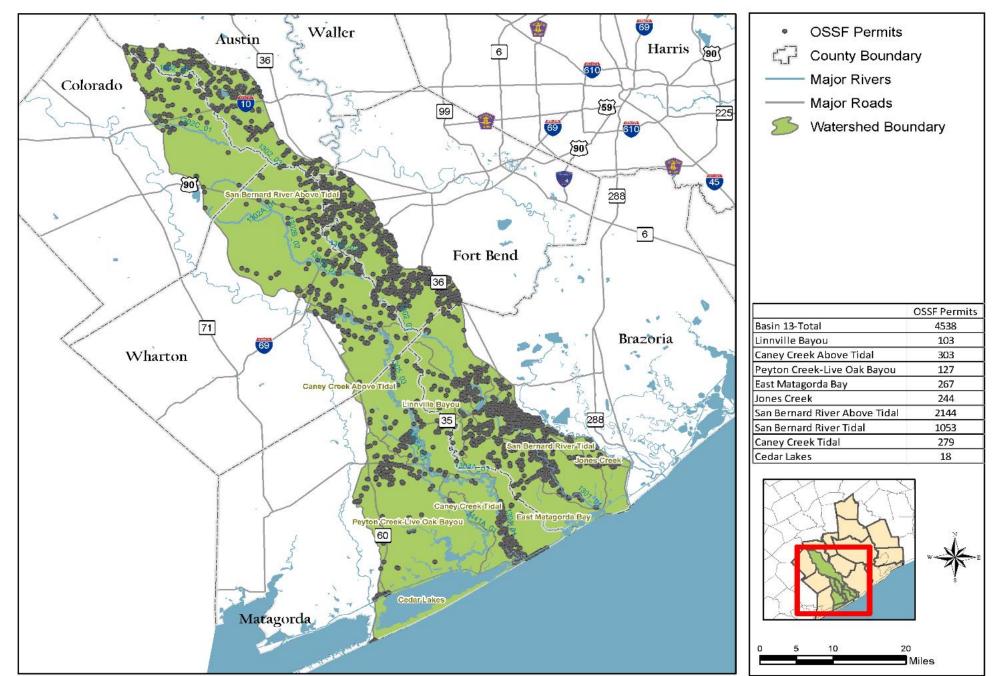
- Domestic pets (dogs, cats)
- Wastewater infrastructure
- Wildlife (deer, bird, raccoon, etc.)
- Concentrated Animal Feeding
 Operation
- Feral Hogs
- Onsite Sewage Treatment
- Urban lawns and landscaping
- Agriculture/Pasture



Source Contributions



Basin 13 - OSSF Permits



Potential Ag Source Measures

Watershed	Pasture/Grassland Area (Acres)	Cattle and Calves	Hogs and Pigs	Sheep and Lambs	Equine	Poultry
Brazoria	262112	78907	4218	1435	4572	6033
Matagorda	240492	53283	47	304	1141	1261
Wharton	256621	57168	131	395	1687	242
Caney Creek Tidal	9904.68	2194	2	13	47	52
Linnville Bayou	23429.63	5804	127	63	215	244
Caney Creek Above Tidal	40842.56	9069	13	56	224	144



Potential Pet / Feral Hog Source Measures

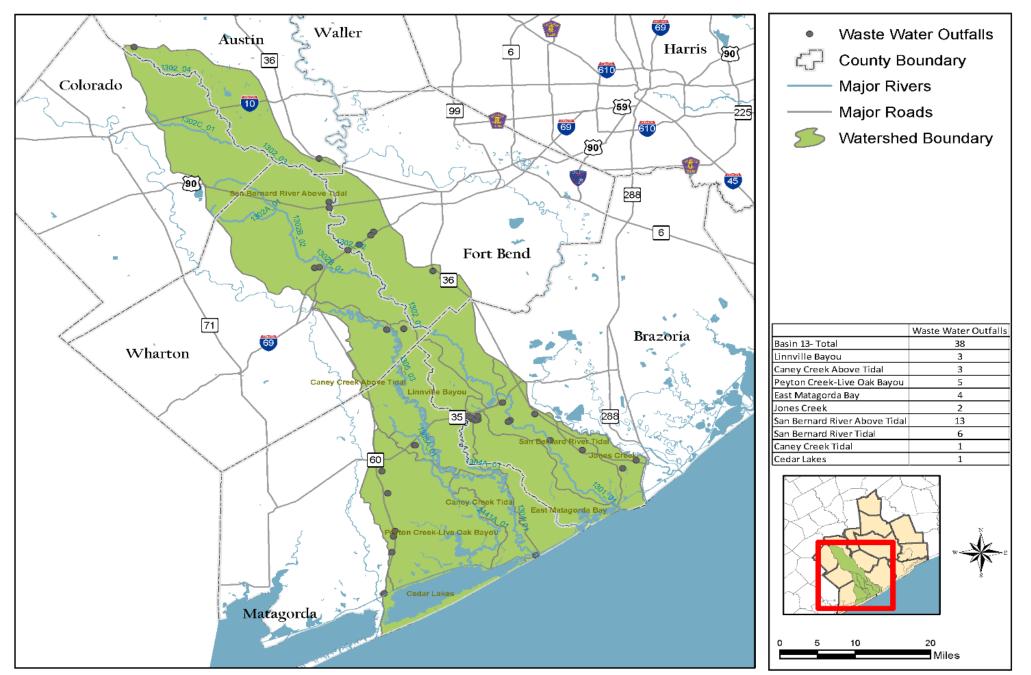
Segment	Estimated Households	Dogs	Cats
Caney Creek Tidal	185	108	118
Linnville Bayou	357	208	228
Caney Creek Above Tidal	3,003	1,754	1,916
Total	3,545	2,070	2,262

Watershed	Suitable Area (Acres)	Suitable Area (Sq. Mile)	Feral Hog Population
Caney Creek Tidal	28,182.51	44.04	342-570
Linnville Bayou	63,782.74	99.66	774-1291
Caney Creek Above Tidal	100,742.43	157.41	1223-2038





Basin 13 - Waste Water Outfalls



Working Together to Protect Our Waterways

Basin 13 Leadership Forum

Purpose of the Leadership Forum:



Receive Updates & Provide Input



Collaboration on Implementation Activities

Composition of the Leadership Forum

Basin 13 Leadership Forum



COUNTY OFFICIALS

- Austin County
- Brazoria County
- Colorado County
- Fort Bend County
- Matagorda County
- Wharton County



CITY OFFICIALS

- City of Bay City
- City of Brazoria
- City of Eagle Lake
- City of East Bernard
- City of Freeport
- City of Kendleton
- City of Lake Jackson
- City of Needville
- City of Rosenberg
- City of Sealy
- City of Sweeny
- City of Wallis
- City of West Columbia
- City of Wharton
- Village of Jones Creek



PERMITTEES

Twenty-six permittees with discharge points in the Caney Creek and Linville Bayou or San Bernard watershed.



Tell me what you want to get out of the Basin 13 Leadership Forum?

Implementation Activities

Basin 13 Leadership Forum

What current or ongoing activities are happening in your communities?

Implementation Activities

Basin 13 Leadership Forum

What current or ongoing activities would you like to see in your communities?

Available H-GAC Resources

Basin 13 Leadership Forum

• HGACBuy (Cooperative Purchasing)

• Engagement Toolbox (Coastal Communities)

O Interactive Mapping Tools

Septic System Replacement Program

• Additional Partnership Opportunities

O Collaborative Grant Submissions

Caney Creek / Linville Bayou Plan Development Process





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