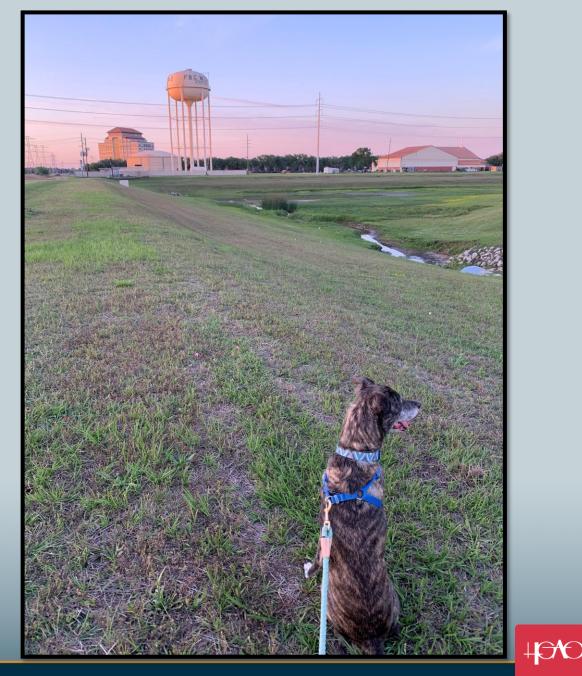


Watershed-Based Planning

Clean Waters Initiative

August 26, 2021



Houston-Galvestor Area Council

Acknowledgements





TCEQ Total Maximum Daily Load (TMDL) Program – Austin

 TCEQ 319 Non-Point Source Program – Austin

TSSWCB 319 Non-Point Source Program – Temple



Water Quality Management

- Monitoring
- Assessment
- Address Impairments

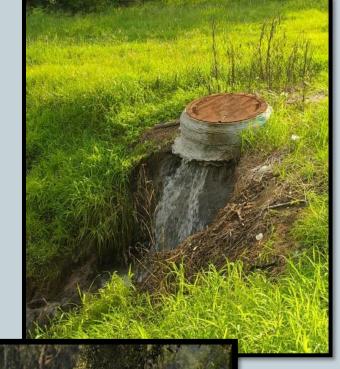


Watershed-based Planning

Total Maximum Daily Load

- TMDL = WLA + LA + FG + MOS
- TMDL Implementation Plan (I-Plan)

Watershed Protection Plan



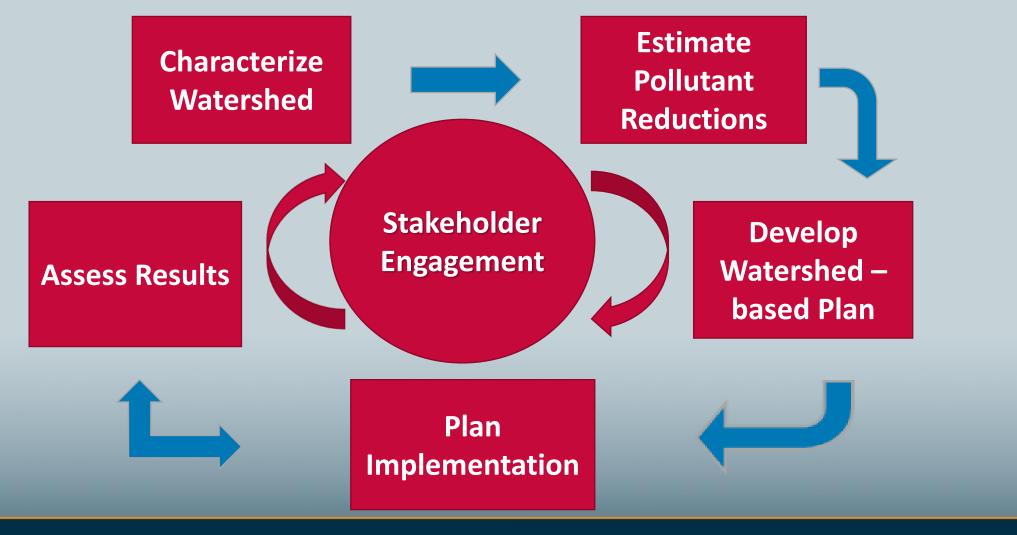






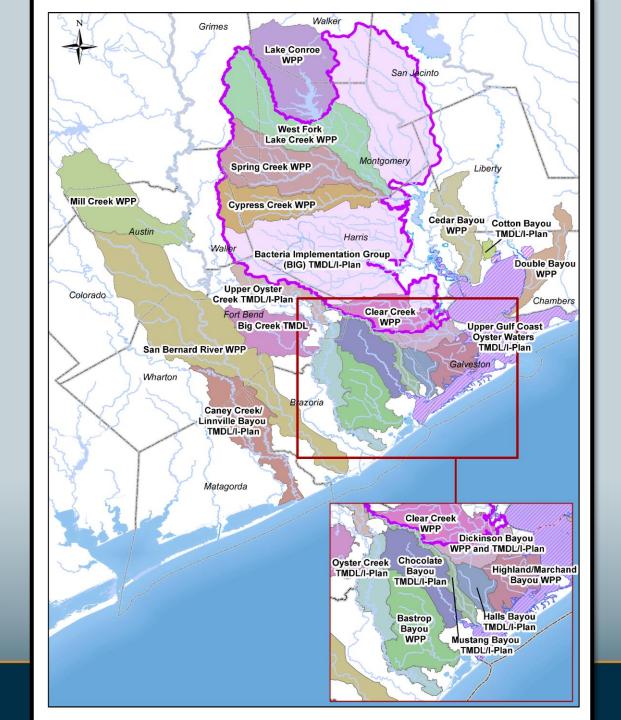
Houston-Galvesto Area Council

Steps in a Watershed-Based Plan



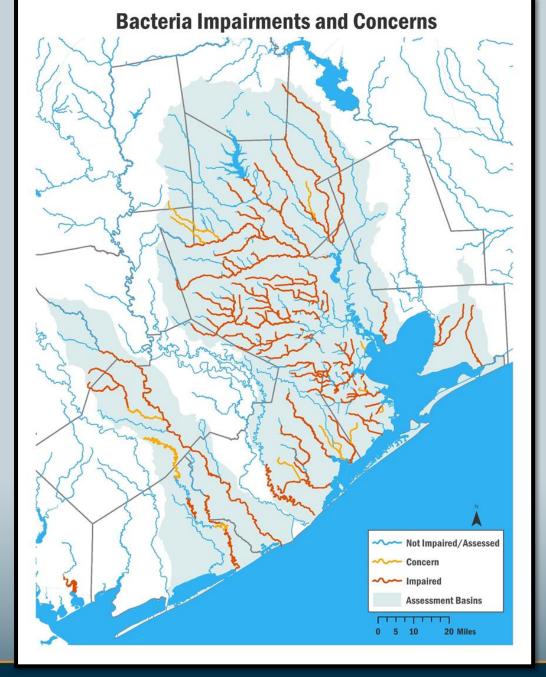
Serving Today • Planning for Tomorrow

Houston-Galve Area Counci





h-gac.com



Water Quality Impairments

TCEQ's 2020 Integrated Report for Surface Water Quality



EX (

Houston-Galve Area Counc

h-gac.com

Watershed-Based Plan Development

- Voluntary
- Stakeholder Developed
- Identifies Management Measures

Implementation Road Map

Implementation Plan for Two Total Maximum Daily Loads for Indicator Bacteria in the Chocolate Bayou Watershed

Segments: 1107 and 1108 Assessment Units: 1107_01 and 1108_01





Management Measures

- Support Rural Land Management Initiatives
- Promote Safe OSSF Use and Maintenance
- Improve Wastewater Treatment Facility and Collection System Function
- Address Fecal Deposition of Feral Hog Populations
- Address Fecal Deposition of Dog Waste
- Support Urban Stormwater Management





Implementation

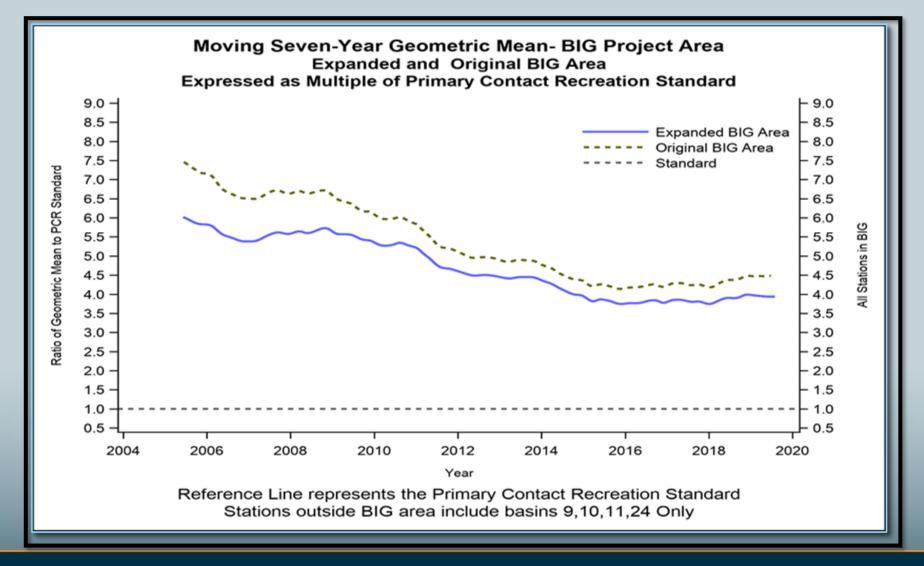
Fish Me From The Watershe

What Can You I

Outreach

- TrashBash®
- Olin Take Child To Work Fair
- Texas Stream Team Training
- OSSF Workshops
- Ag/Feral Hog Workshops
- Green Infrastructure Workshops
- Structural
 - Pet Waste Stations
 - Evaluating/Repairing OSSFs

Bacteria Trends





Houston-Galves Area Council

Exploration Green



Multi-Use • Water Quality • Flood Mitigation • Recreation • Wildlife Habitat

<u>Exploration Green Detention</u>
<u>Facility | Clear Lake City Water</u>
<u>Authority (clcwa.org)</u>



Top Five/Least Five IDDE Model Program

Stormwater

Wetlands

Three Phases

- Rapid Survey
- Wet/Dry Weather Source Identification
- Notify Local Jurisdictions

Quality Assured Data

Model IDDE Program

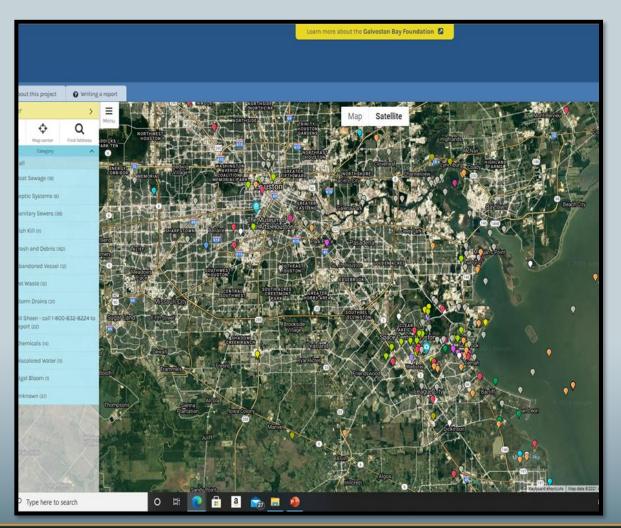
https://h-gac.com/bacteria-implementation-group/reports

er Source sdictions Data

h-gac.com

Serving Today • Planning for Tomor

Galveston Bay Action Network



 Online Pollution Reporting Tool

GBAN

- Phone App
- Reporting:
 - Boater Wastes
 - Construction Run-off
 - Sanitary Sewer Overflows
 - Septic System Failures

https://m3.mappler.net/gban/





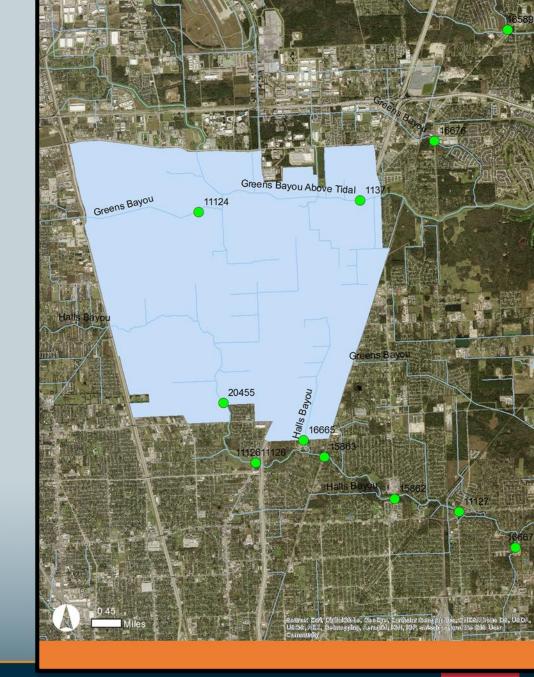
ALDINE WESTFIELD CASE STUDY

Coordinated Partner Effort

- Harris County
- East Aldine Management District

Monitoring Sites

- Halls Bayou
- Greens Bayou





Thank You

Steven Johnston

- Steven.johnston@h-gac.com
- 281-681-2579











Serving Today • Planning for Tomorrow

h-gac.com