

# Ayish Bayou & West Mud Creek Water Quality Planning.

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## Goal:

*Addresses impairments by involving local stakeholders in developing and implementing action plans that improve water quality.*

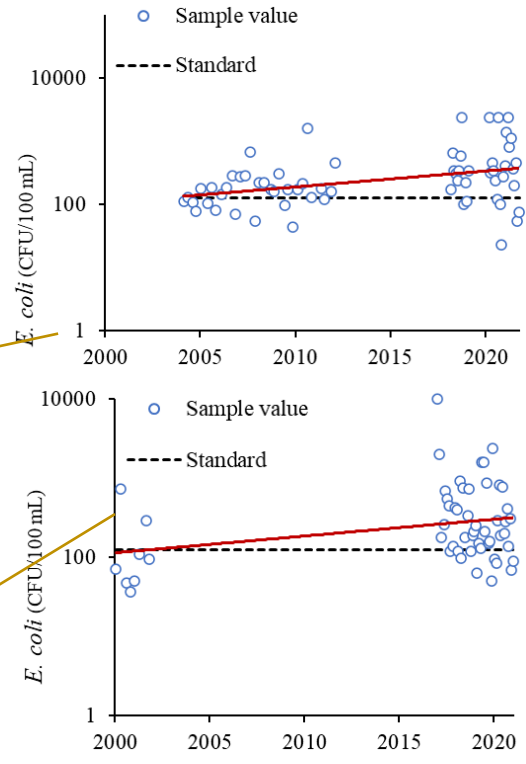
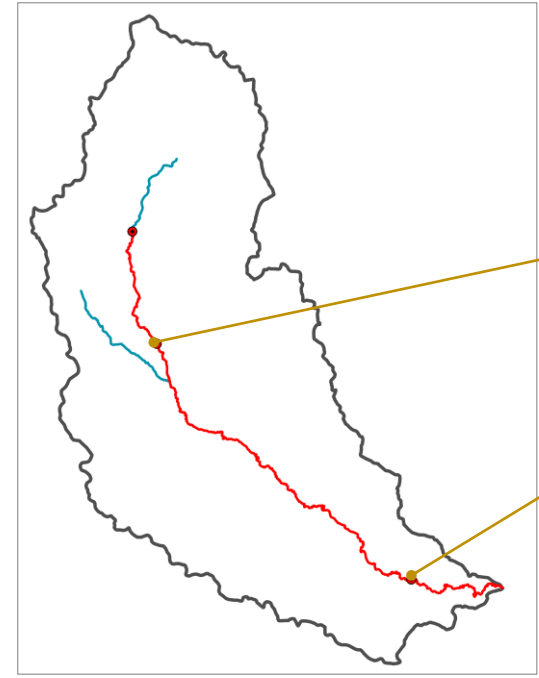
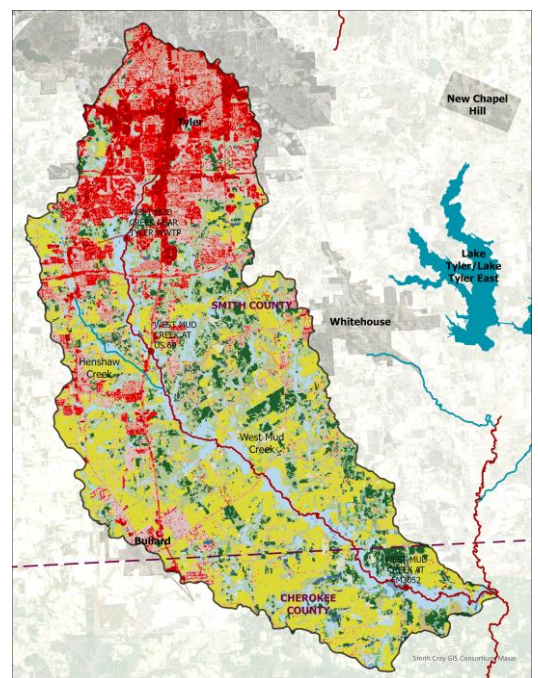
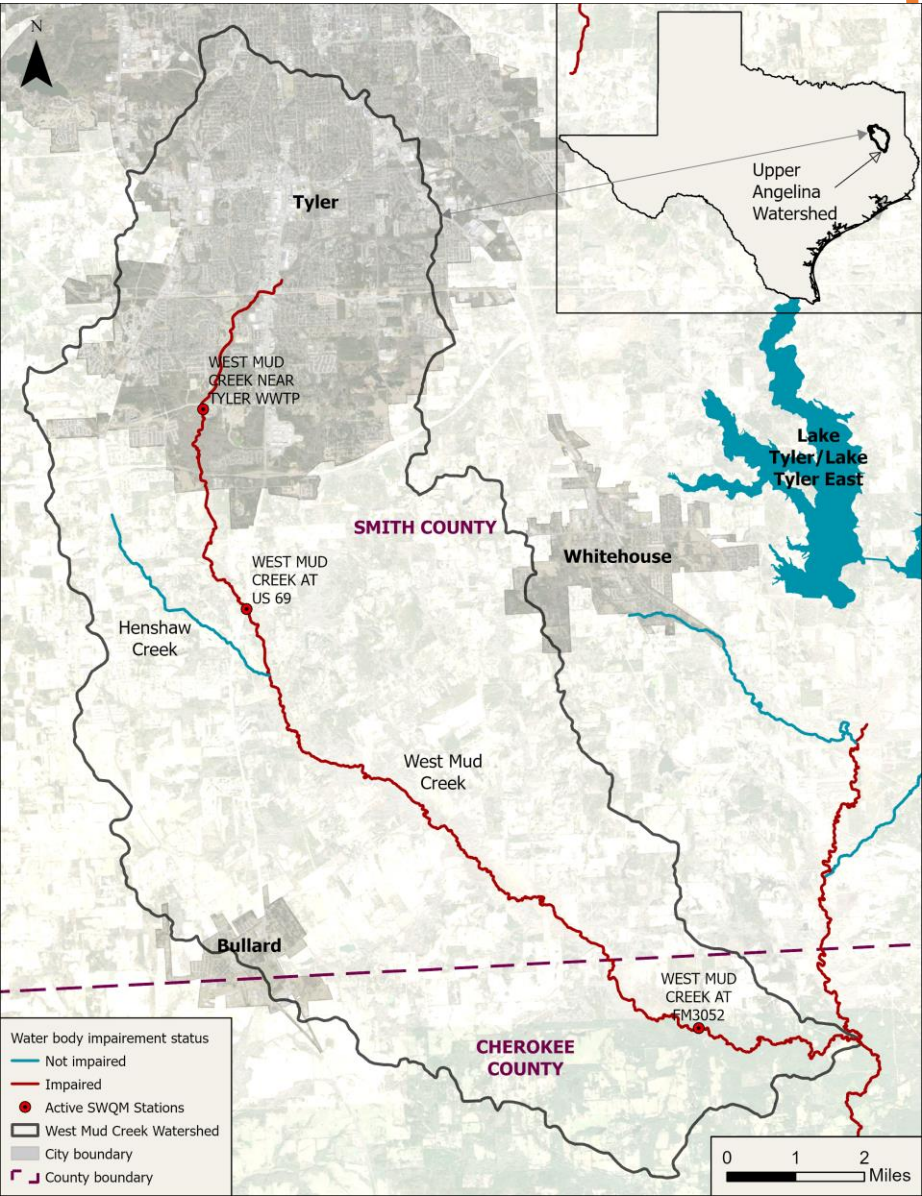
## Updates: 06/2023

- † *Watersheds*
- † *Water quality status*
- † *Current planning efforts*



# West Mud Creek

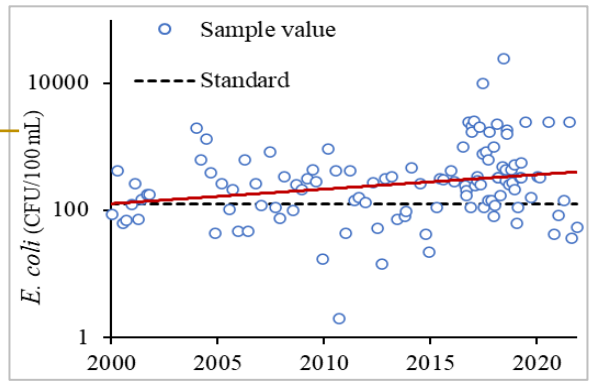
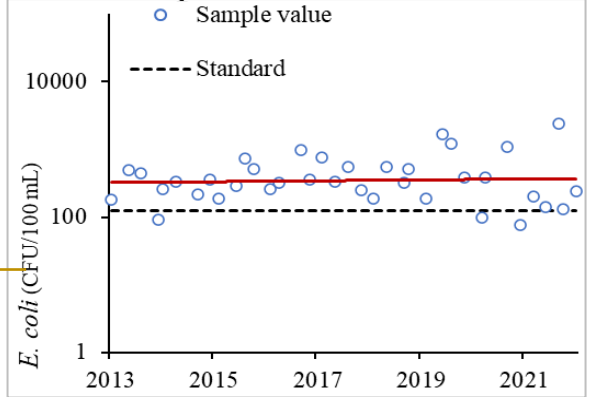
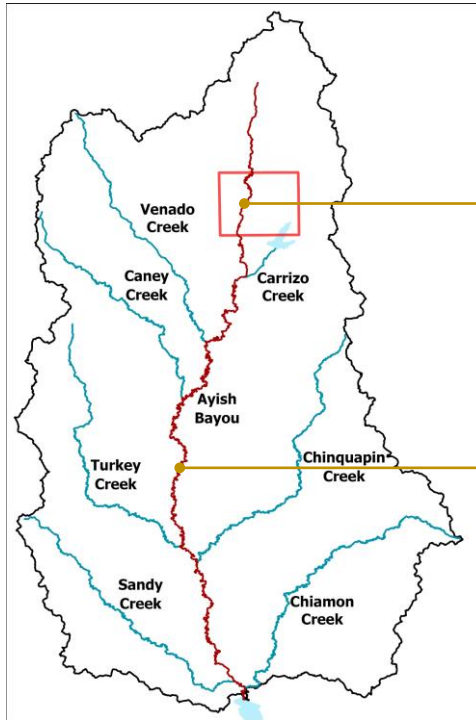
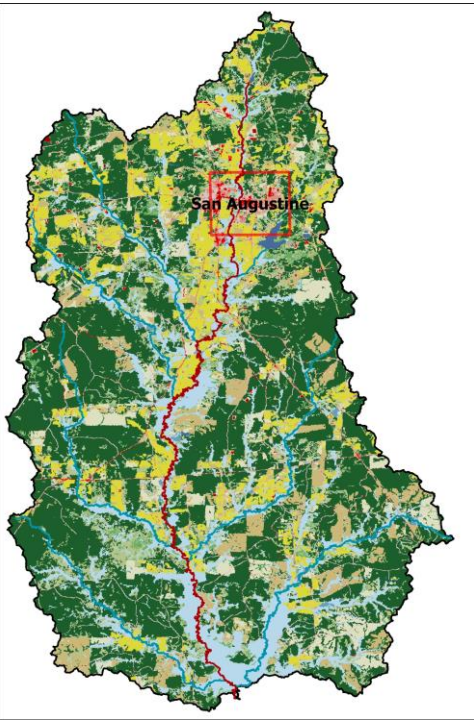
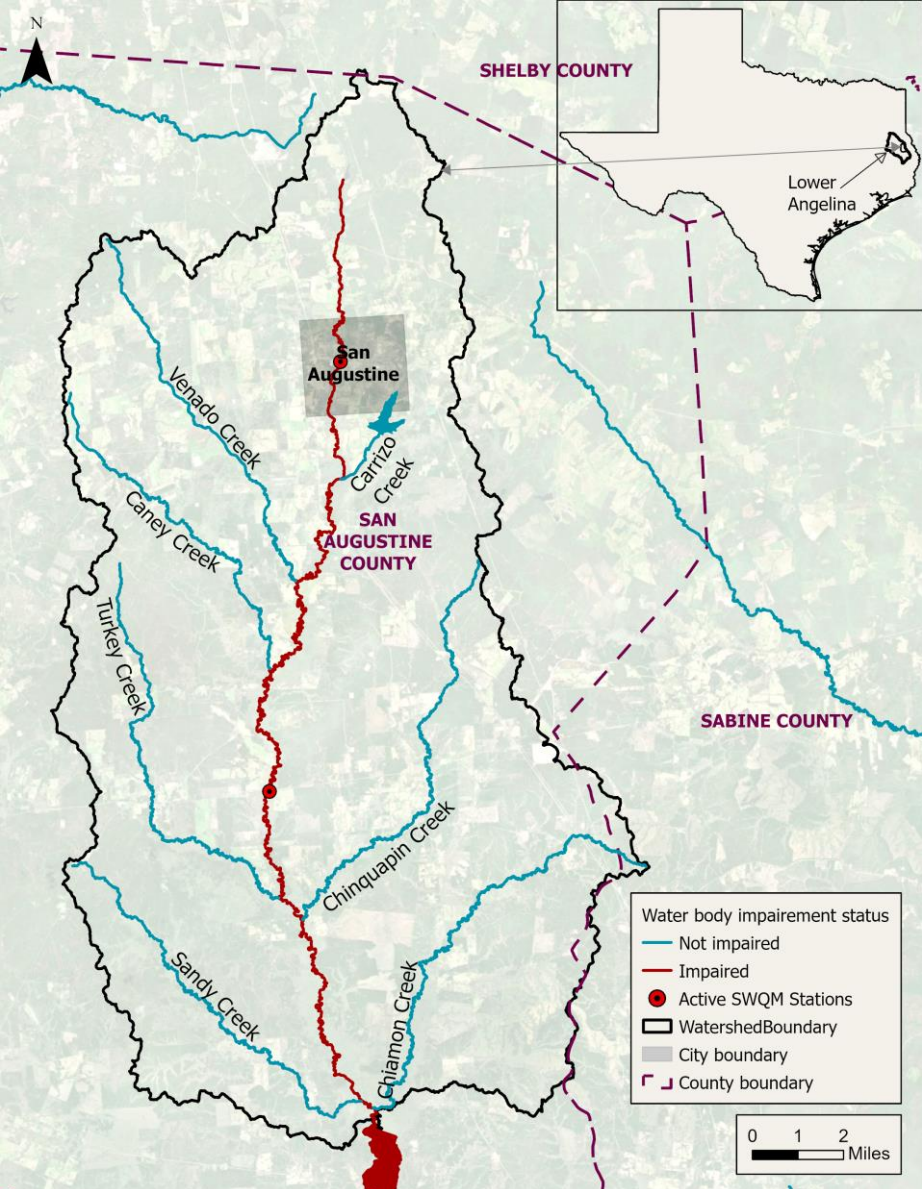
- ❑ 23 mi long stream, a trib. of Mud Ck, trib. of the Angelina River.
- ❑ Area is about 93 mi<sup>2</sup>, located in Smith and Cherokee counties.
- ❑ Upstream is urban, draining part of the City of Tyler. Includes part of Bullard & Whitehouse.
  
- ❑ Data shows elevated fecal indicator bacteria levels in the downstream AU.
- ❑ Typical sources of contamination in urban watersheds include;
  - Human waste from e.g., leaking sewer lines, sewer overflows,
  - Domesticated animal waste transported via runoff.





# Ayish Bayou

- ❑ 32 mi long stream, flowing into the Sam Rayburn Reservoir.
- ❑ Area is about 192 mi<sup>2</sup>, 99% in the San Augustine County.
- ❑ Soils have low infiltration rates, high runoff potential.
- ❑ Largely rural - forests cover about 56%.
- ❑ Data shows elevated fecal indicator bacteria levels.
- ❑ Typical sources of contamination in rural watersheds include;
  - Human waste from e.g., failing septic systems,
  - Domesticated, farm and wild animal waste transported via runoff.



# The Watershed Based Planning

TWRI & ANRA are working with the TCEQ to monitor water quality, engage residents, and develop strategies for improving water quality.

Sign up for emails & updates at <https://ayish.twri.tamu.edu/>

Objectives	Ayish Bayou	West Mud Creek
<input type="checkbox"/> Gather & analyze existing data.	~ Data analysis in 21/22 ~ Planned characterization.	~ Characterization in 2021 ( <a href="https://twri.tamu.edu/publications/technical-reports/2022-technical-reports/tr-539/">https://twri.tamu.edu/publications/technical-reports/2022-technical-reports/tr-539/</a> )
<input type="checkbox"/> Identify data gaps and collect additional data if needed.	~ Monitoring in 22/23. ~ Planned monitoring & characterization.	~ Characterization for watersheds above the Sam Rayburn Reservoir. ~ Engagement in 22/23.
<input type="checkbox"/> Identify causes and sources of pollution that need to be controlled.	~ To do	~ Planned TSD , Engagement
<input type="checkbox"/> Estimate pollutant loads and reductions needed.	~ To do	~ Planned TSD, Engagement
<input type="checkbox"/> Develop effective management /control measures	~ To do	~ To do
<input type="checkbox"/> Implement measures	~ To do	~ To do
<input type="checkbox"/> Track progress. Monitor & Evaluate	~ To do	~ To do