

TEXAS STREAM TEAM

Presented By:
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Deputy Director, Watershed Services

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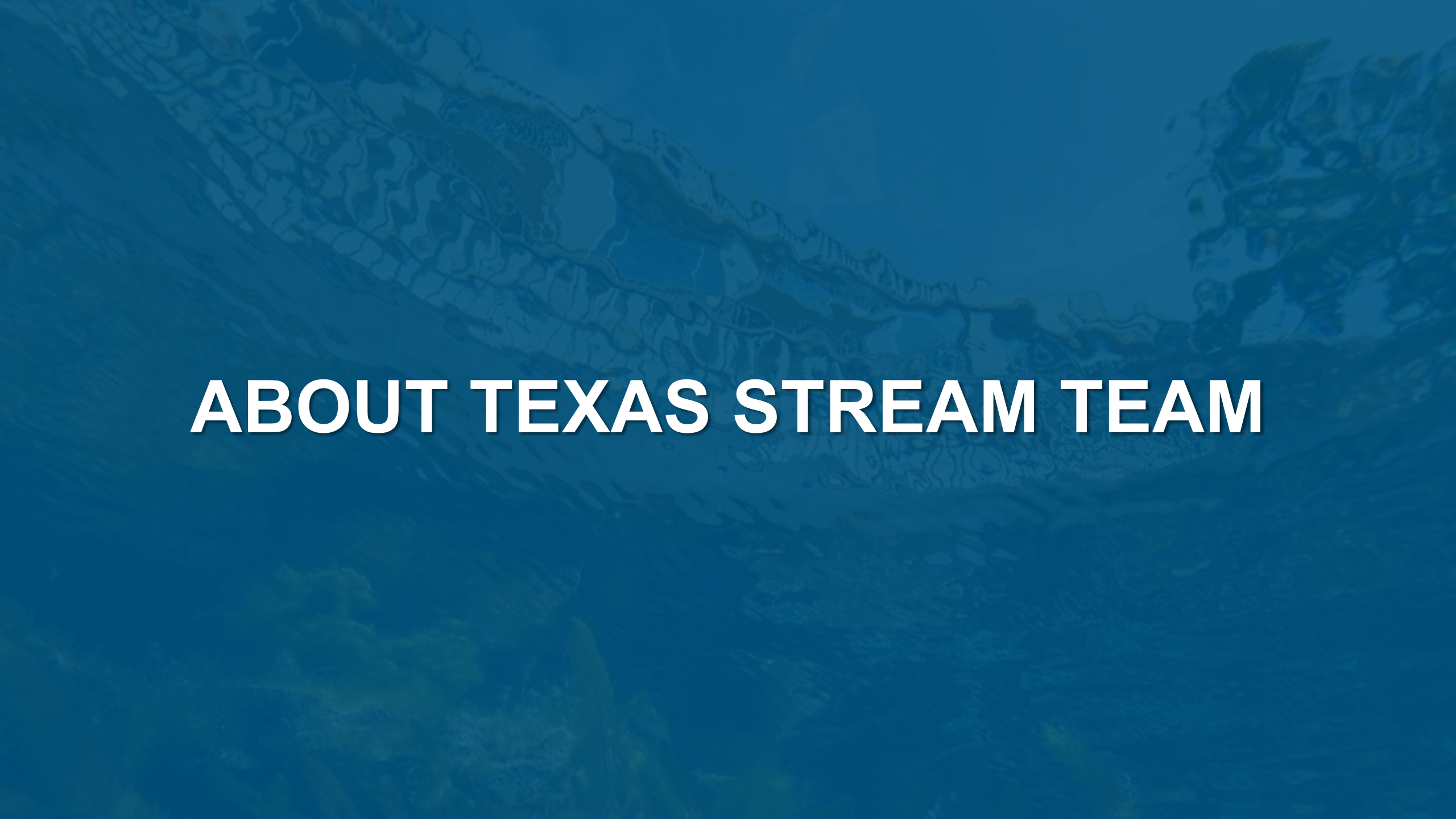


THE MEADOWS CENTER
FOR WATER AND THE ENVIRONMENT
TEXAS STATE UNIVERSITY

TEXAS STREAM TEAM

AGENDA

- 1 ABOUT TEXAS STREAM TEAM**
- 2 REGION ACTIVITY**
- 3 GET INVOLVED**



ABOUT TEXAS STREAM TEAM

STATEWIDE COMMUNITY SCIENCE WATER QUALITY MONITORING SINCE 1991

A network of trained community scientists and supportive partners
administered through a cooperative partnership between:



THE MEADOWS CENTER
FOR WATER AND THE ENVIRONMENT
TEXAS STATE UNIVERSITY





MISSION:

To facilitate environmental stewardship by empowering a statewide network of concerned community scientists, partners, and institutions in a collaborative effort to promote a healthy and safe environment through environmental education, data collection, and community action.

12,400+

Community Scientists

360+

Active Monitoring Sites

150+

Partners



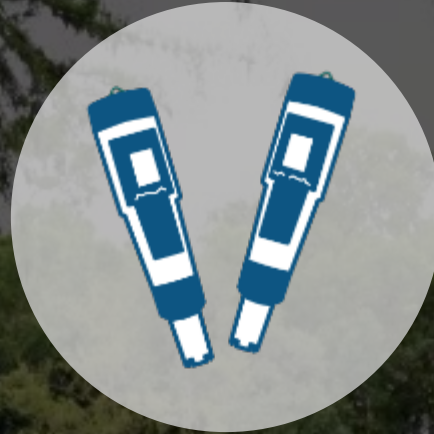
QUALITY ASSURANCE

- TCEQ-approved [Quality Assurance Project Plan](#)
- Monitoring techniques are standardized statewide to ensure consistent data quality
- Data are reviewed to ensure they are representative of the samples analyzed and locations monitored

COMMUNITY SCIENTIST TRAININGS



Standard Core



Probe Core



E. coli Bacteria



Optical Brightener



Advanced



Riparian Evaluation

WHY COMMUNITY SCIENCE MONITORING?



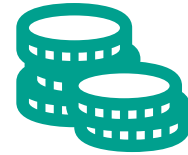
Increased
monitoring
coverage



Early warning
system



Community
engagement and
empowerment



Cost effective

The background of the slide features a photograph of a mountain range, likely the Alps, with a blue semi-transparent overlay. The mountains are rugged and covered in snow or light-colored rock, with some greenery visible in the lower slopes. The sky is a clear, pale blue.

REGION ACTIVITY

METRICS OVERVIEW

8 TCEQ
SEGMENTS

9 TRAINERS

82 ACTIVE
MONITORS

69 ACTIVE
MONITORING
SITES

10,181 TOTAL
MONITORING
EVENTS

TRAINERS

Aquatic Alliance, Tom Heath - Probe

Aquatic Alliance, Richard Grayson – Core, Advanced

City of Arlington, Edgar Salazar – Standard Core

City of Dallas, Dale Lynch – Standard Core

City of Dallas, Leslie Cohea – Standard Core

City of Dallas, Sam Mosley – Standard Core

City of Frisco, Crystal Flannery-Bachicha – Standard Core

University of Texas at Arlington, Chandani Rana – Standard Core

PARTNERS

Aquatic Alliance

Blackland Prairie TMN

City of Arlington

City of Dallas

City of Denton

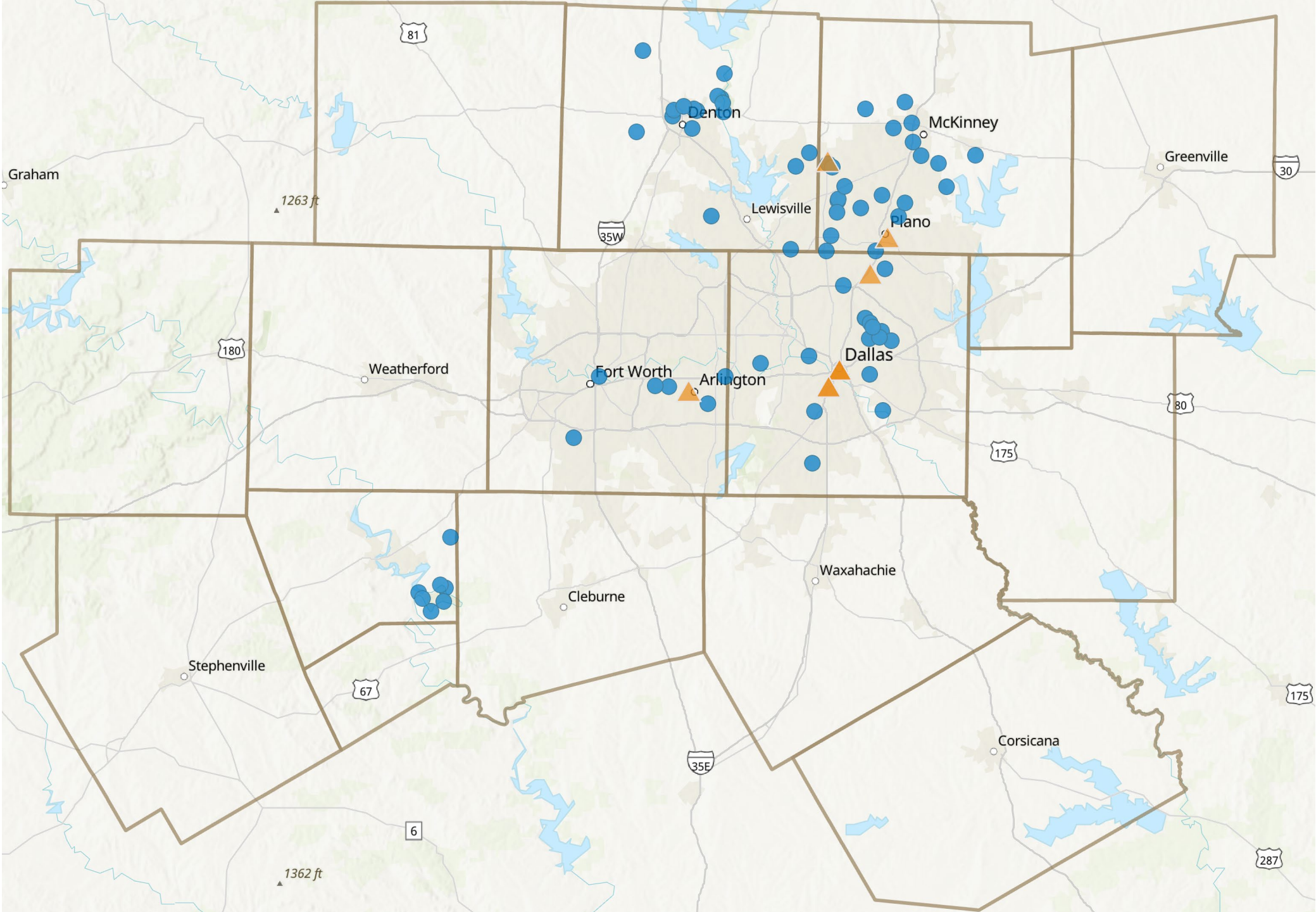
City of Frisco

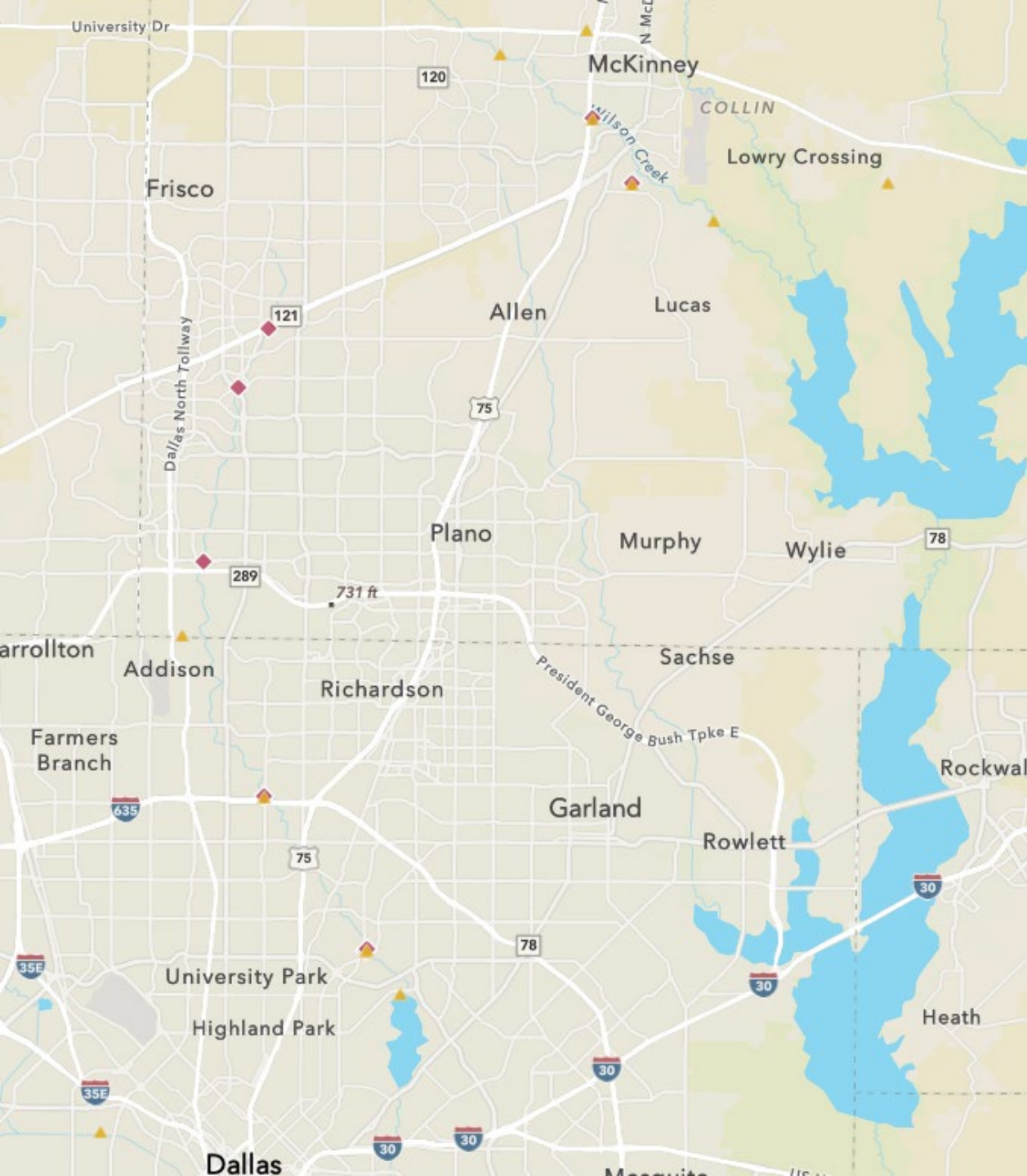
Rio Brazos TMN

Town of Flower Mound

City of Fort Worth

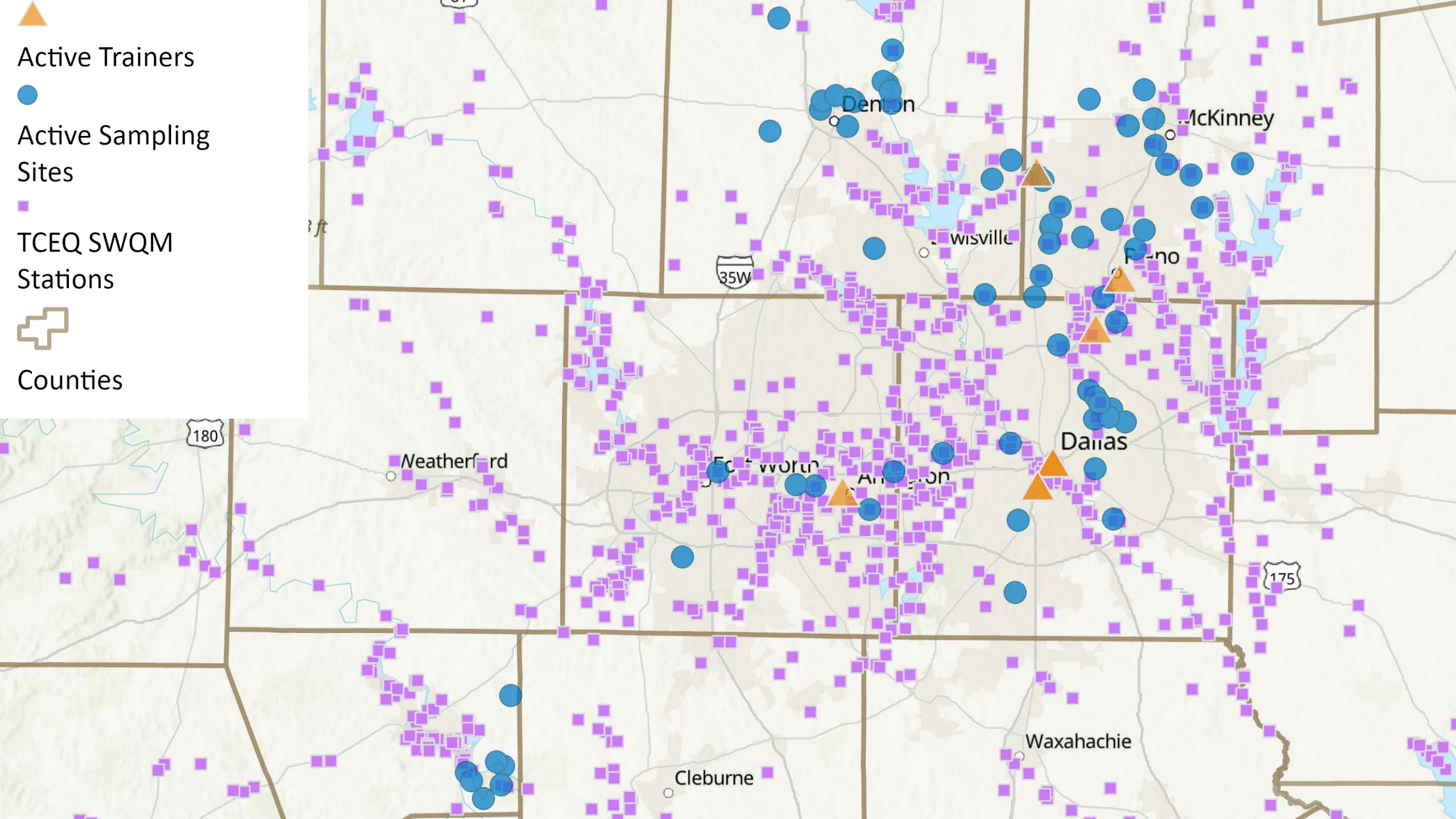
- ▲ Active Trainers
- Active Sampling Sites
- ⬢ Counties





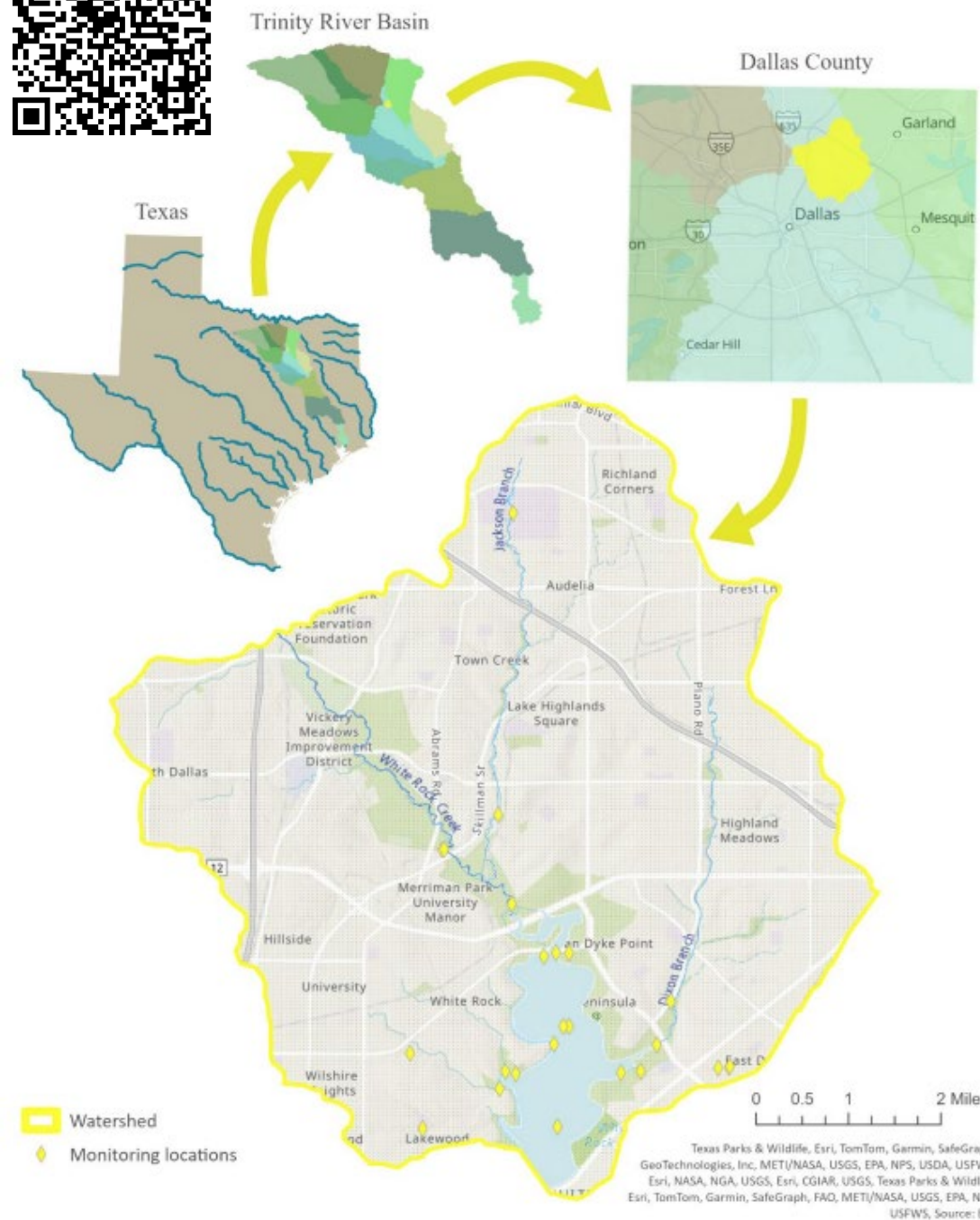
NPS MONITORING

- 7 advanced sites
- 11 bacteria sites





White Rock Lake Watershed



WHITE ROCK LAKE WATERSHED SUMMARY REPORT

- *E. coli* impairment (Recreation Use) listed in 2016, categorized as 5c in the Draft 2024 TCEQ Integrated Report.
- Key findings from Texas Stream Team monitoring (1992–2024, 1,381 monitoring events, 19 sites analyzed):
 - Total Dissolved Solids exceedances (400 mg/L) at 3 sites.
 - Dissolved Oxygen below standard (5.0 mg/L) at 1 site.
 - *E. coli* exceedances (126 CFU/100 mL) at 7 sites.
 - Discrete measurements failed to meet WQS for TDS at 14 sites, DO at 15, temperature (32.2 C) at 5 sites, and pH (6.5-9.0 s.u.) at 5 sites.
- Recommendation to continue consistent monitoring and expand bacteria monitoring to track trends. Expand nutrient monitoring to assess nutrient loadings (Advanced).



GET INVOLVED

MAJOR GOALS

1

Ensure
sustainable
funding

2

Expand NPS
pollution
monitoring

3

Implement OB
monitoring

4

Prioritize state
monitoring
sites

5

Enhance data
quality

SERVICES

Trainings & monitoring

Watershed summary reports

Donated match

Accessible, long-term data

Grant and project collaboration

Outreach engagement

Junior Monitoring Ambassador Program

Student Leadership in Environmental Action Award (coming soon)

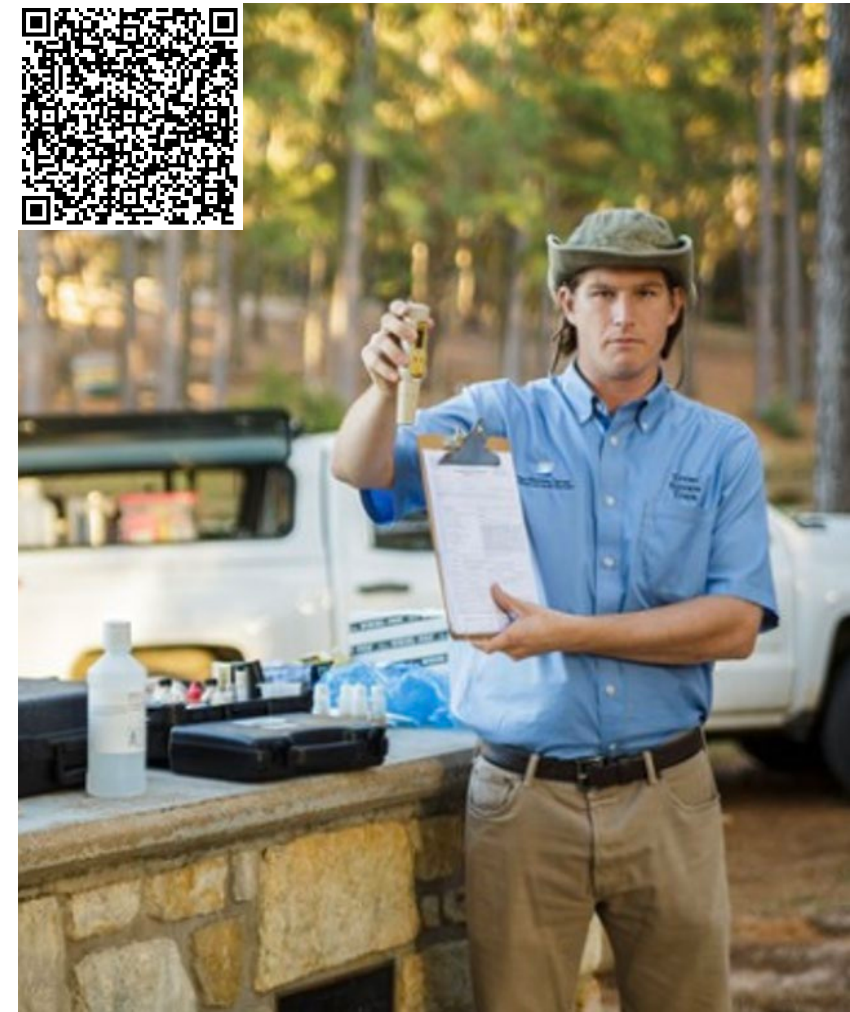
INVOLVEMENT OPPORTUNITIES



**COMMUNITY
SCIENTIST**

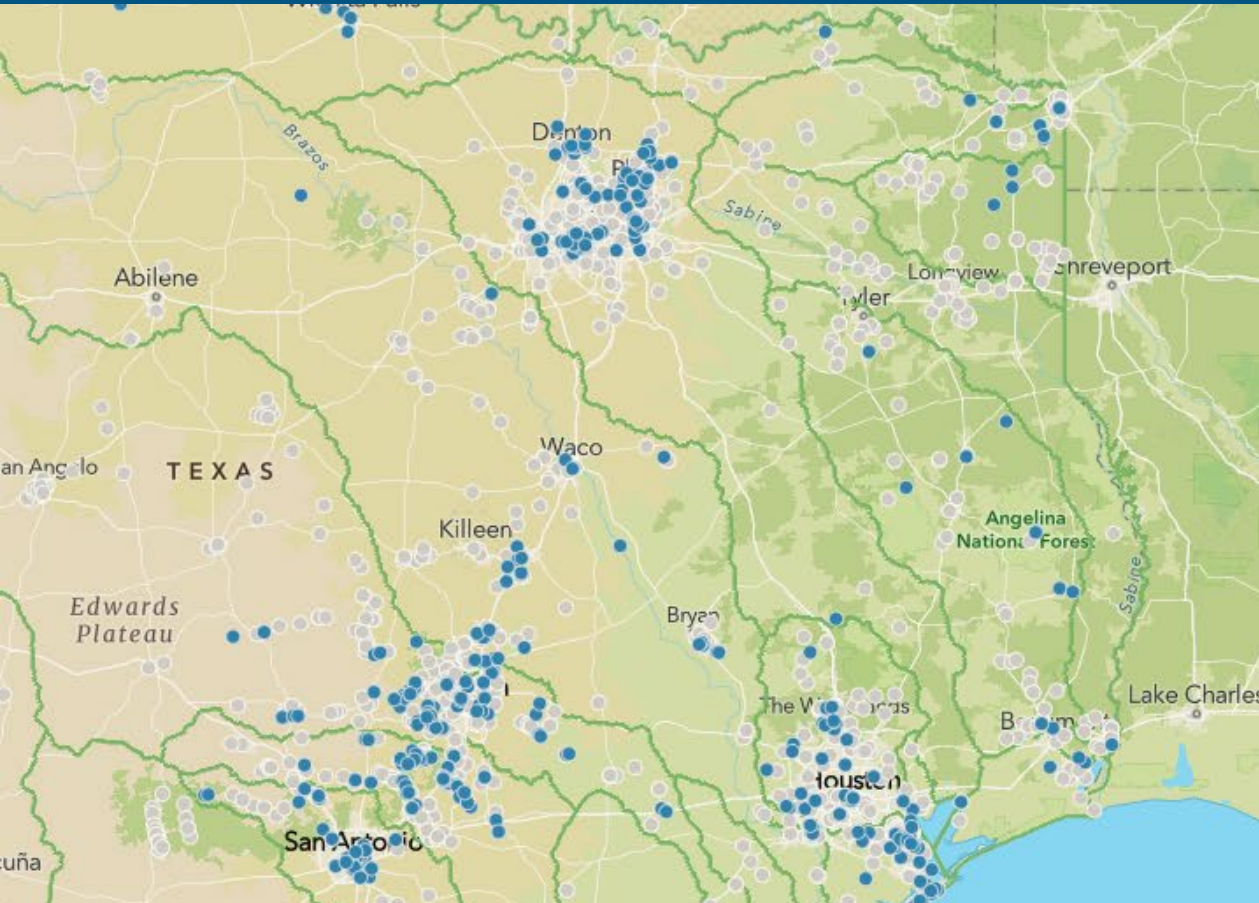


PARTNER



TRAINER/QAO

PUBLIC DATAMAP



357
in Texas
Selected:
357
Active Sites

Flow Severity: High

80705 - Reinhart Branch @ Sunset Bay On White

5/5/2024, 12:00 AM

Days Since Last Significant Rainfall: 0

Rainfall Accumulation: 2.26 inches

Flow Severity: High

12624 - San Marcos River In State Park

5/1/2024, 12:00 AM

Days Since Last Significant Rainfall: 10

Rainfall Accumulation: 0.00 inches

Flow Severity: Normal

80751 - Oxbow Lake @ Palmetto State Park

5/1/2024, 12:00 AM

Days Since Last Significant Rainfall: 10

Rainfall Accumulation: 0.00 inches

Flow Severity: No flow

Monitoring Tests

Core 87.9%

Advanced 7.1%

Selected Site Statistics

(Updates with map extent)

2 - Crwn - Onion Creek At Hwy 190/220

2 monitoring events

Parameter	Average	Unit
pH	7.45	standard units
Dissolved Oxygen	8.15	mg/L



ACCESS DATAMAP



REQUEST DATA

CONTACT INFORMATION

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ARTIST CREDITS

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