



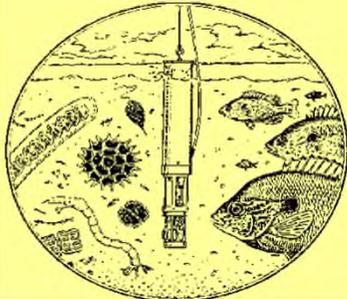
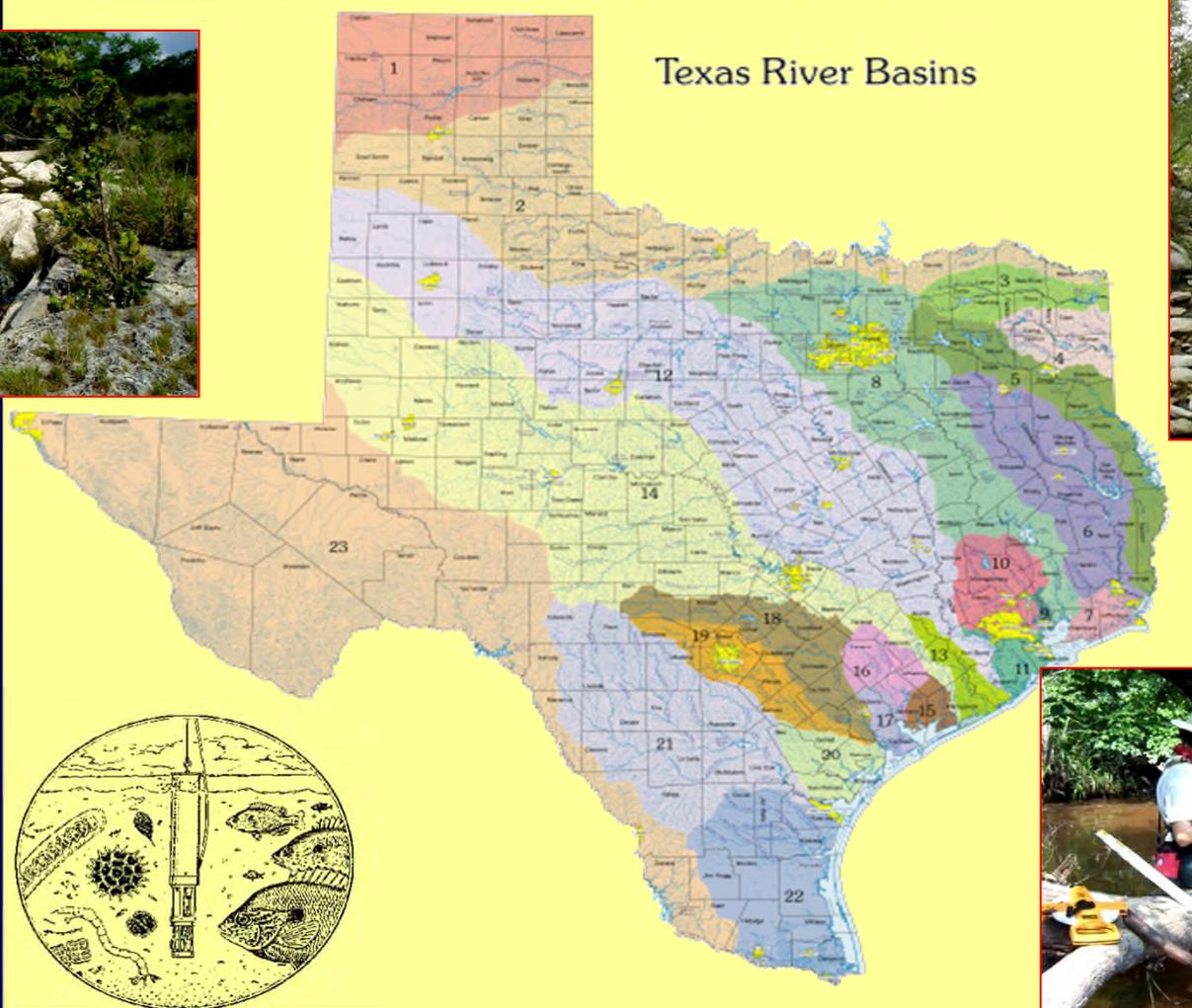
Surface Water Quality Monitoring



Patricia Wise
Clean Rivers Program
Texas Commission on Environmental Quality
May 1, 2014

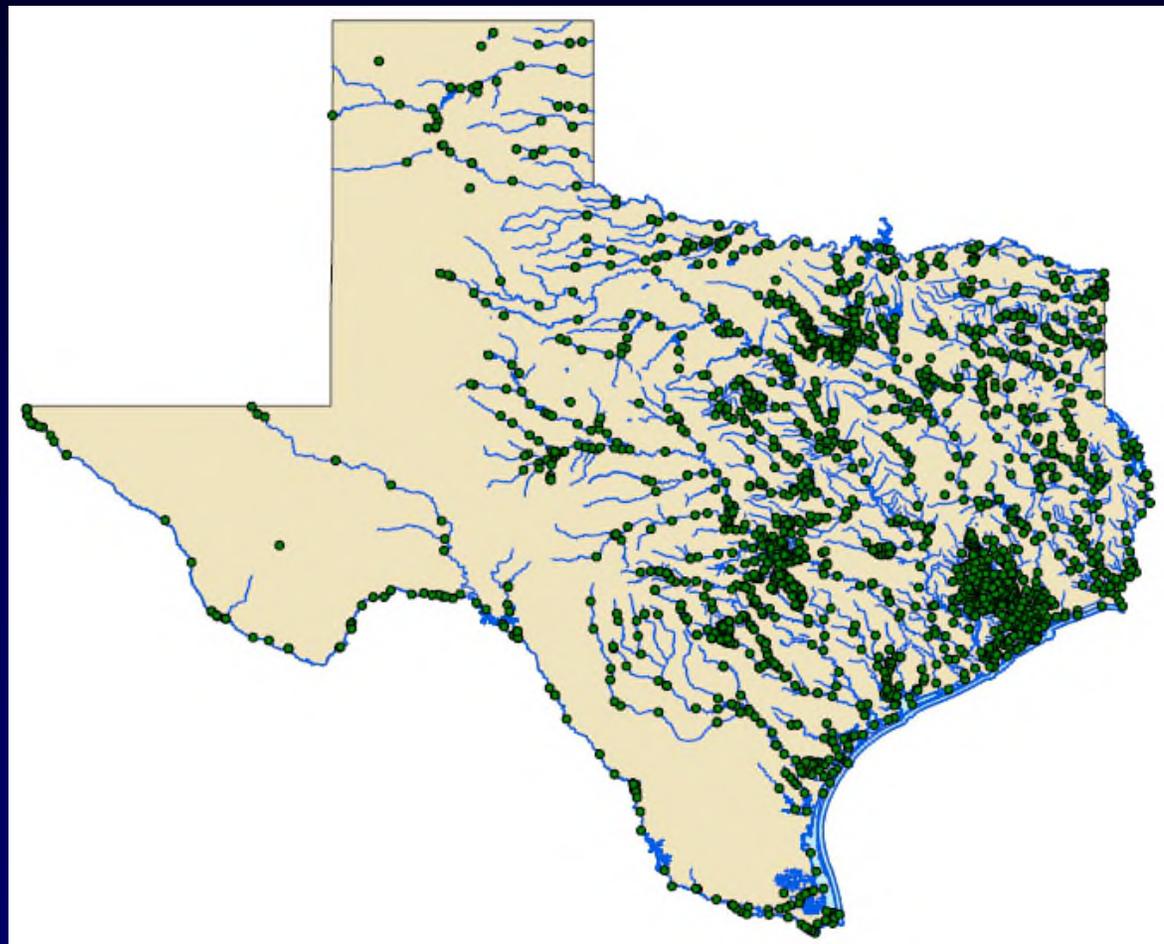
TCEQ Surface Water Quality Monitoring

Started in 1967 to collect, manage, store, assess, share, and report water quality data.





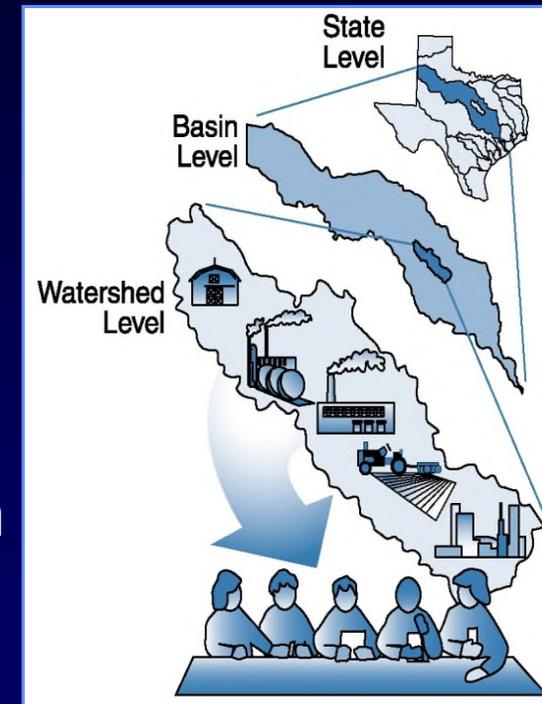
FY2014 Monitoring Stations





Clean Rivers Program

- A partnership between the TCEQ, regional water authorities, and the public
- The hub for water quality information and coordination of monitoring efforts and project initiation, within each river basin



www.texascleanrivers.org



CRP Major Functions

- Monitor Water Quality
- Evaluate Water Quality Issues
- Engage Stakeholders
- **Facilitate Coordination of Water Quality Activities**



Coordinating Monitoring Efforts Statewide

- Eliminate duplication, save resources
- Support TCEQ decision making
- Increase local monitoring participation
- Ensure consistent quality
- Set priorities, plan solutions

Coordinated Monitoring Schedule

Clean Rivers Program partners and Texas Commission on Environmental Quality routinely monitor the water quality of rivers, lakes, bays and the Gulf of Mexico to determine if state standards are met. This site displays an interactive database that contains more than 1,800 sites monitored in Texas. Select a basin on the map to begin.



[Click here to view all sites.](#)

Choose Schedule FY:
(Fiscal Year is September 1-August 31)

2015 ▼

- Basin 1 - Canadian River
- Basin 2 - Red River
- Basin 3 - Sulphur River
- Basin 4 - Cypress Creek
- Basin 5 - Sabine River
- Basin 6 - Neches River
- Basin 7 - Neches-Trinity Coastal
- Basin 8 - Trinity River
- Basin 9 - Trinity-San Jacinto Coastal
- Basin 10 - San Jacinto River
- Basin 11 - San Jacinto-Brazos Coastal

- Basin 14 - Colorado River
- Basin 15 - Colorado-Lavaca Coastal
- Basin 16 - Lavaca River
- Basin 17 - Lavaca-Guadalupe Coastal
- Basin 18 - Guadalupe River
- Basin 19 - San Antonio River
- Basin 20 - San Antonio-Nueces Coastal
- Basin 21 - Nueces River
- Basin 22 - Nueces-Rio Grande Coastal
- Basin 23 - Rio Grande
- Basin 24 - Bays and Estuaries

- TCEQ Region 1
- TCEQ Region 2
- TCEQ Region 3
- TCEQ Region 4
- TCEQ Region 5
- TCEQ Region 6
- TCEQ Region 7
- TCEQ Region 8
- TCEQ Region 9
- TCEQ Region 10
- TCEQ Region 11
- TCEQ Region 12
- TCEQ Region 13
- TCEQ Region 14
- TCEQ Region 15
- TCEQ Region 16

<https://cms.lcra.org/>



CMS Features

Station Description

Link to Special Projects Page

Sampling Frequency

Coordinated Monitoring Schedule

River Basin: 24
FY: 2012

Login

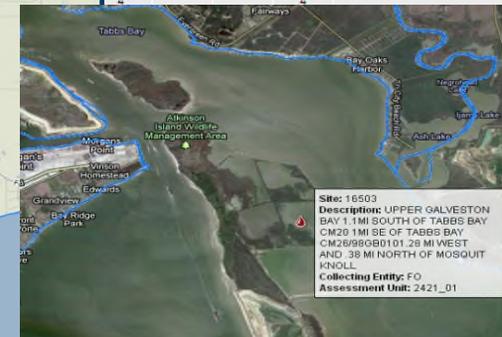
Description (key word) Station Region Segment Submitting Entity Collecting Entity Monitoring Type

Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	Aq/Hab	Benthics	Nekton	Metal Water	Organic Water	Metal Sed	Organic Sed	Conv	Amb Tox Water	Amb Tox Sed	Bacteria	Flow	Fish Tissue	Field	Comments
Segment 2411 Sabine Pass Map																						
SABINE PASS ADJACENT TO THE COAST GUARD STATION IN THE PASS Map	13298	2411	10	WC	FO	RT									4			4		4		
Segment 2412 Sabine Lake Map																						
SABINE LAKE 380 METERS WNW OF BLUE BUCK POINT Map	13300	2412	10	WC	FO	RT												4		4		
SABINE LAKE SOUTH AND ADJACENT TO THE SOUTH END OF STEWTS ISLAND Map	13302	2412	10	WC	FO	RT							4							4		
SABINE LAKE MIDDLE OF LAKE 9.71 KM E AND 105 M N OF ST SPUR 215/SAVANNAH AVE AT SH 87/GULFWAY DR APPROXIMATELY 4.7 KM SE OF PORT ARTHUR AND 8.4 KM W OF SABINE NATIONAL WILDLIFE REFUGE Map	14514	2412	10	WC	FO	RT									4					4		
Segment 2421 Upper Galveston Bay Map																						
UPPER GALVESTON BAY AT END OF FIVE MILE PASS AT CM 8 Map	13306	2421	12	WC	FO	RT									4					4		
PINE GULLY AT TODDVILLE RD NE OF SEABROOK Map	15463	2421	12	WC	FO	RT									4					4		
UPPER GALVESTON BAY 1.1MI SOUTH OF TABBS BAY CM20 1MI SE OF TABBS BAY CM26/98GB0101.28 MI WEST AND .38 MI NORTH OF MOSQUIT KNOLL Map	16503	2421	12	WC	FO															4		
UPPER GALVESTON BAY 0.75MI NORTH OF FIVE MILE CUT 0.46MI EAST OF ATKINSON ISLAND/98GB014 Map	16507	2421	12	WC	FO															4		
UPPER GALVESTON BAY 4.08 MI WEST AND 1.79 MI NORTH OF VINGT ET UN ISLAND 4MI NE OF HSC64/98GB017 Map	16510	2421	12	WC	FO															4		
UPPER GALVESTON BAY 2.9MI WEST OF HSC69 1.8MI SOUTH OF RED BLUFF POINT/98GB018 Map	16511	2421	12	WC	FO															4		
UPPER GALVESTON BAY 0.5MI EAST OF HSC65/66/98GB019 6.9 MI EAST OF THE MOUTH OF CLEAR LAKE Map	16512	2421	12	WC	FO															4		
UPPER GALVESTON BAY 2.1MI SE OF SEABROOK CM4 1.15 MI NORTH OF CLINTON BEACH 1.75MI NW OF HLBP OUTFALL/98GB024 Map	16516	2421	12	WC	FO															4		
LITTLE CEDAR BAYOU AT SOUTH BROADWAY STREET / OLD SH 146 / SH LOOP 410 IN LA PORTE Map	20902	2421	12	WC	FO															4		

Parameters Monitored

Monitoring Entity

Site Map





Generating and Sharing Comparable and Defensible Data

- Quality Assurance

All monitoring activities are covered under QAPPs approved by the Agency and, in some instances, the EPA depending on the funding source

- The data are collected using a consistent set of protocols

- SWQM Procedures Manual
- Technical System Audits
- Annual training

- The data are loaded into the Surface Water Quality Monitoring Information System database

- Accessible via the web
- Transferred to EPA