

# Water-Quality Science

Age-Dating of Water

**Emerging Contaminant Studies** 

- **Geochemical Modeling**
- Long-term Monitoring:
- **Total Maximum Daily Load (TMDL) Assessments Trends Analysis**

**Geospatial Database Development** 

**Isotopic Analyses of Water** 

**Microbiological Studies** 

**Real-Time Monitoring:** Groundwater, Surface Water, Lakes and Reservoirs

**Regression Analysis and Real-Time Monitoring to Estimate Constituent Concentrations and Loads** 

Water-Quality Analysis at Part-Per-Billion Levels

National Water Information System (NWISWeb) Data Available Within 24 Hours of Receipt from Laboratory



MISSION: To provide reliable, impartial, timely information that is needed to

The Water Resources Discipline actively promotes the use of this information by

Minimize the loss of life and property as a result of water-related natural

 Effectively manage groundwater and surface-water resources for domestic, agriculture, commercial, industrial, recreational, and ecological uses

· Protect and enhance water resources for human health, aquatic health, and

 Contribute to wise physical and economic development of the Nation's resources for the benefit of present and future generations

hazards, such as floods, droughts, and land movement

Surface-wate

sampling

understand the Nation's water resources.

decision makers to

environmental quality

### Stormwater Monitoring







Automated underwater vehicle

Kemmerer (depth specific)

**USGS Texas Water-Quality** Sampling Sites

**EXPLANATION** Water-quality site Surface water Groundwater Lake/reservoir Spring Real time

The U.S. Geological Survey has been collecting water-guality data in Texas since 1907. Today (2015) the Texas Water Science Center database contains more than 9300 sites with discrete water-quality data. In water year 2015, more than 4,700 water-quality samples were collected in Texas. U.S. Geological Survey National Water Information System (NWISWeb) data are available on the World Wide Web, at URL: http://nwis.waterdata.usgs.gov/tx/nwis/gwdata

The U.S. Geological Survey (USGS) Texas Water Science Center works in cooperation with approximately 100 municipalities, river authorities, groundwater districts, and State and Federal agencies in Texas to provide reliable, impartial scientific information to resource managers, planners, and other customers. This information is gathered by the USGS Texas Water Science Center to minimize the loss of life and property from natural disasters, to contribute to the conservation and sound economic and physical development of the Nation's natural resources, and to enhance the quality of life by monitoring water, biological, energy, and mineral resources.

If you have any questions or concerns with which we can assist you, contact us or visit our Web site at <<u>http://tx.usgs.gov></u> or the national Web site at <<u>http://www.usgs.gov></u>. We look forward to serving you in the near future.

Key contacts of the USGS Texas Water Science Center:

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## **Texas Water Science Center Locations**

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USGS Water Discipline Office
 USGS Biology Discipline Office

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