USGS
science for a changing world

Karst Science

Water-quality sampling

Karst Water-Resource Evaluation

- Monitor and Transmit Real-Time (Web Available) Spring, Streamflow and Groundwater-Level Data
- Analyze Spring-Discharge and Well Water-Level Hydrographs and Chemographs
- Quantify and Refine Water Budgets for Groundwater Flow Models
- Install and Maintain Monitoring Instrumentation in Caves and Springs

Installing monitoring instruments

Karst Water-Quality Characterization

- Design Innovative Monitoring Programs Integrating Baseline and Storm-Response Geochemistry
- Interpret Breakthrough Curves of Pesticides, Nutrients, Solvents, Bacteria, and Pharmaceuticals for Source Identification
- Model Geochemical Processes of Mixing and Surface-Water/Groundwater Interaction
- Apply Isotopic, Trace Element, and Age-Tracer Geochemistry to Interpretation of Geochemical Evolution and Flow-Path Characterization

Inspecting a real-time data-collection platform

Karst Aquifer Evaluation

- Characterize Aquifer Properties with Innovative Surface and Borehole Geophysical Methods
- Create Geodatabases Linking Karst Features with Geochemical and Hydrological Data
- Apply Sophisticated Statistical Techniques to Reexamine Historical Data in a Present-Day Context
- Make Integrated Susceptibility Assessments

Entering a karst recharge feature

MISSION: To provide reliable, impartial, timely information that is needed to understand the Nation's water resources.

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

- Minimize the loss of life and property as a result of water-related natural hazards, such as floods, droughts, and land movement
- 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 environmental quality
- Contribute to wise physical and economic development of the Nation's resources for the benefit of present and future generations

U.S. Department of the Interior
U.S. Geological Survey

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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 http://tx.usgs.gov or the national Web site at http://www.usgs.gov. We look forward to serving you in the near future.

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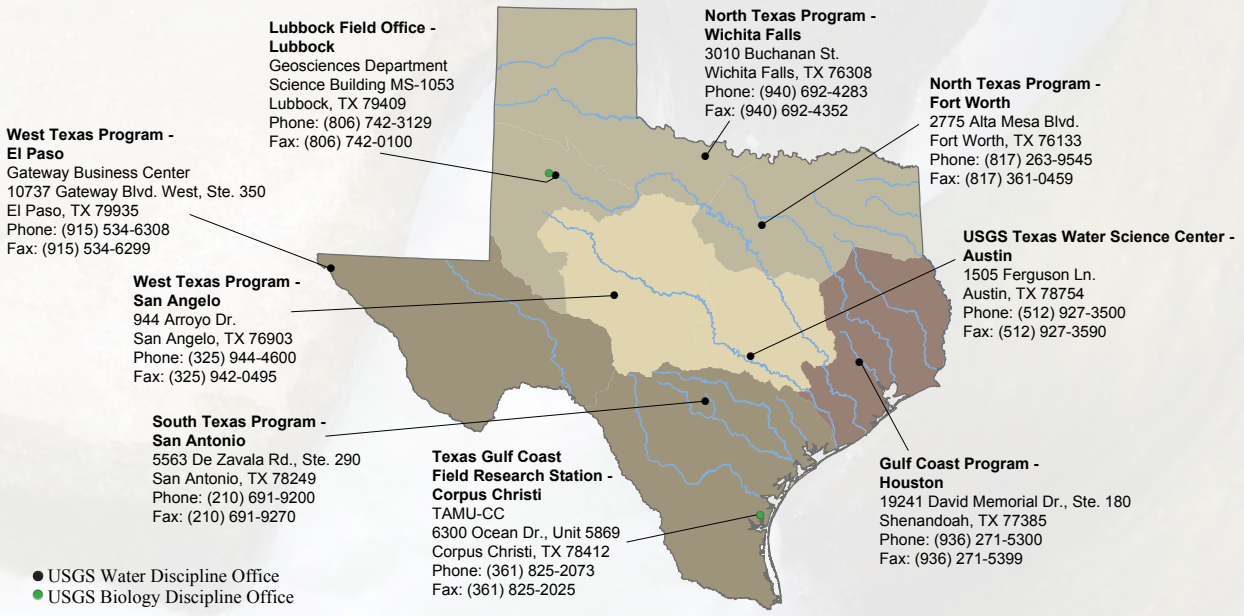
Texas Water Science Center Locations