

# TWDB Monitoring of Statewide Aquifer Conditions

**House Committee on Natural Resources**  
February 10, 2026

**John T. Dupnik, P.G.**

Deputy Executive Administrator, Water Science & Conservation

# Groundwater Data and Science at the TWDB

## Mission

To **collect**, **interpret**, and **provide** accurate, objective information on the groundwater resources of Texas.

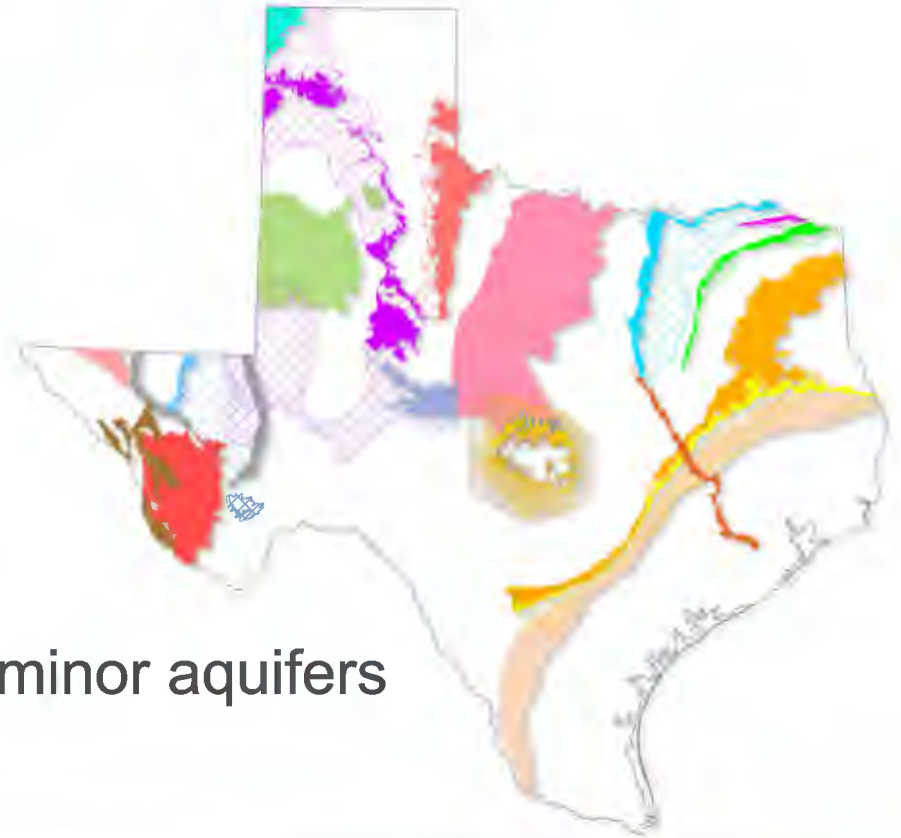
## Vision

For the people of Texas to understand their groundwater resources.

# Texas Aquifers



9 major aquifers



22 minor aquifers

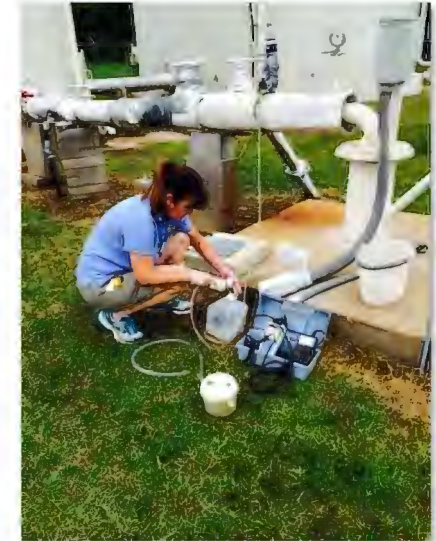
# TWDB Groundwater Monitoring

## Purpose:

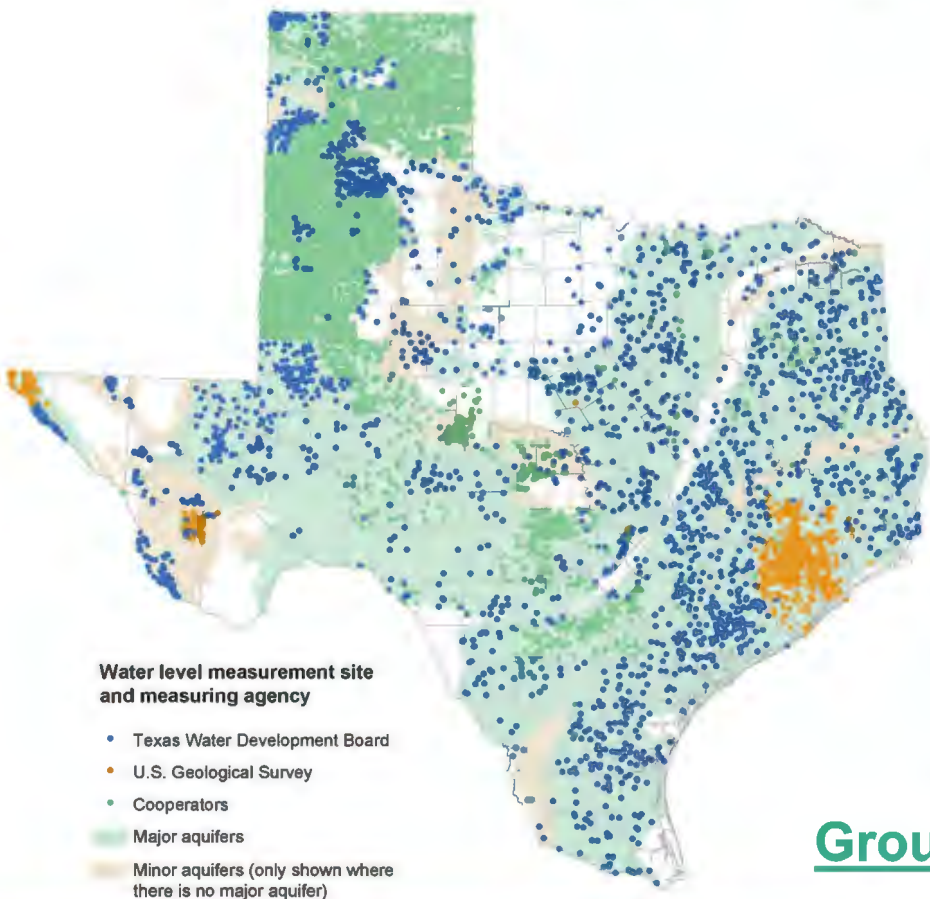
- Collect water level and water quality data
- Report on groundwater quality and levels in major and minor aquifers
- Collaborate with various entities for field data collection
- Provide data to the public

## Programs:

- **Water Level Monitoring**
- **Recorder Wells**
- Water Quality Sampling
- Springs Monitoring

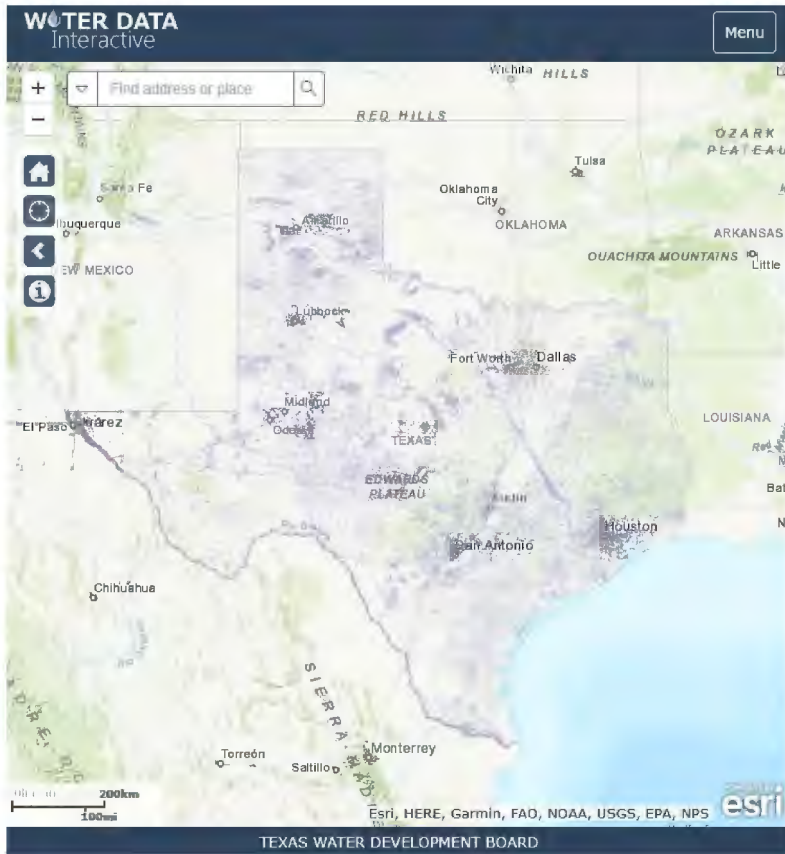


# Water Level Monitoring



[Groundwater Data Viewer \(interactive webmap\)](#)

# TWDB Groundwater Database



WATER DATA Interactive

Groundwater Layers Base Maps Help Disclaimer Texas Water Development Board

Find address or place

Select & Buffer Tool

Select Buffer

Clear Selection

TWDB Groundwater: 28

Pointer - DMS: 31° 47' 48.47" N 95° 28' 54.7" W | DD: 31.794574 -95.481860

TWDB Groundwater 28 BRACS Database 0 Well Reports 0 Plugging Reports 0

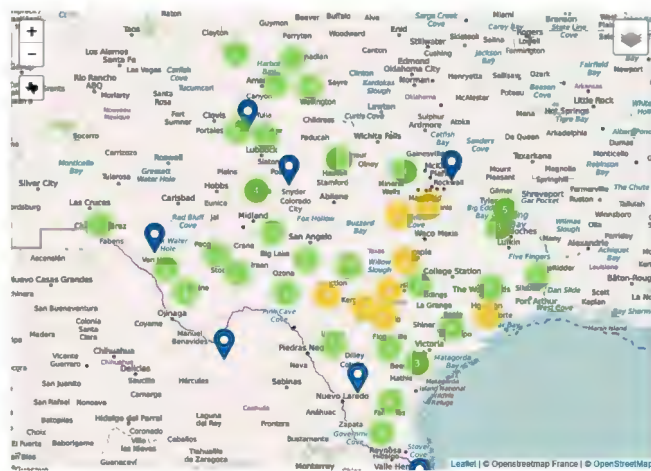
State Well Number	Owner	Water Use	Elevation (ft)	Well Depth (ft)	Water Level Observation Type	Water Quality Available	Aquifer Code Name	Latitude (DD)	Longitude (DD)	County	Well Type
3811601 - Scanned Documents	Bill R. Tipton-Joe Chotiner No.1		650	5887	None	N	NOT-APPL - Aquifer Code is Not Applicable to this Well	31.798722	-95.655556	Anderson	Oil or Gas
3811603 - Scanned Documents	Lone Pine WSC	Public Supply	632	1550	Miscellaneous Measurements	Y	124WLCX - Wilcox Group	31.7915	-95.6645389	Anderson	Withdrawal of Water
	Lone Pine WSC	Public			Miscellaneous		124WLCX -	31.7952	-95.664	Anderson	Withdrawal

TEXAS WATER DEVELOPMENT BOARD

[www3.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer](http://www3.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer)

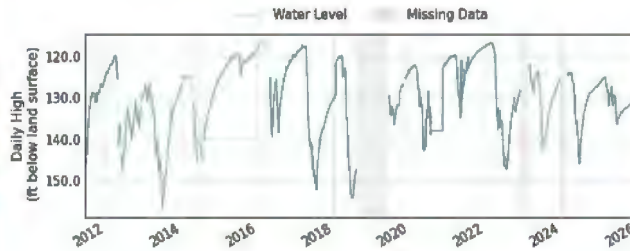
# Recorder Wells

## Automated Groundwater Level Wells



## Live Oak County Gulf Coast Aquifer, Goliad Sand

State Well Number 7950106 is 127.90 feet below land surface on 2026-02-02

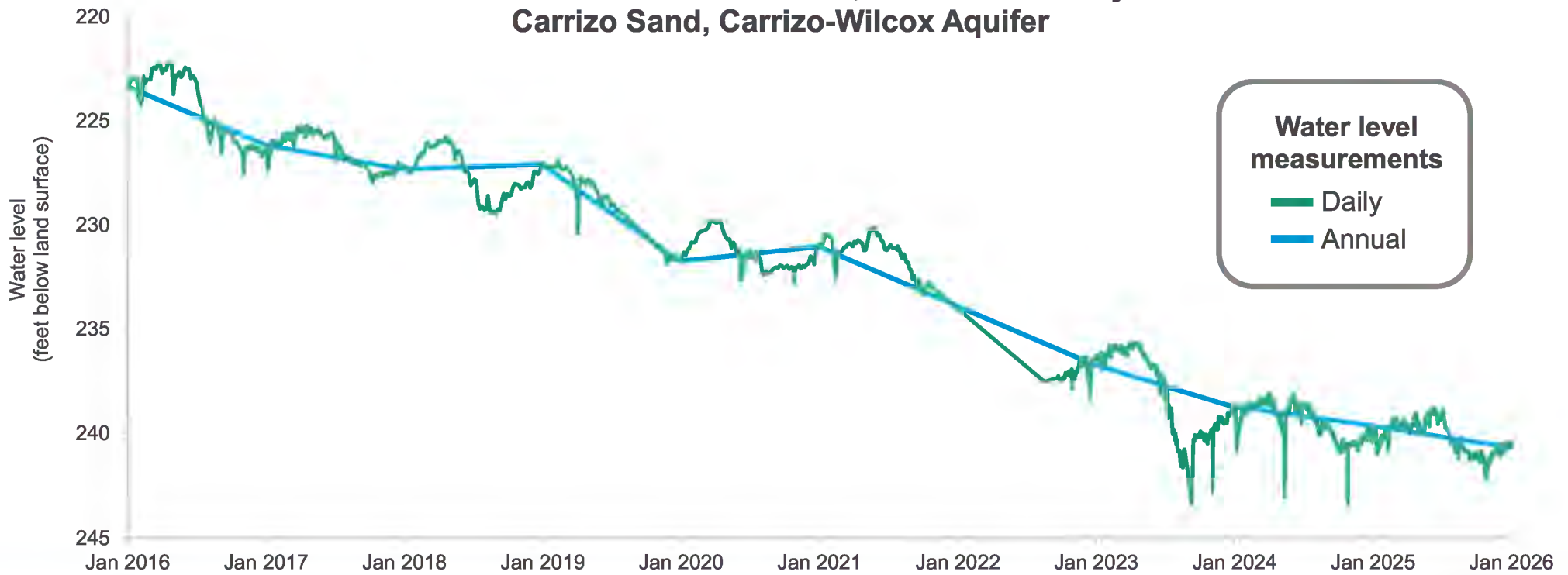


30 Days 1 Year Period of Record



# Water Level Data and Trends

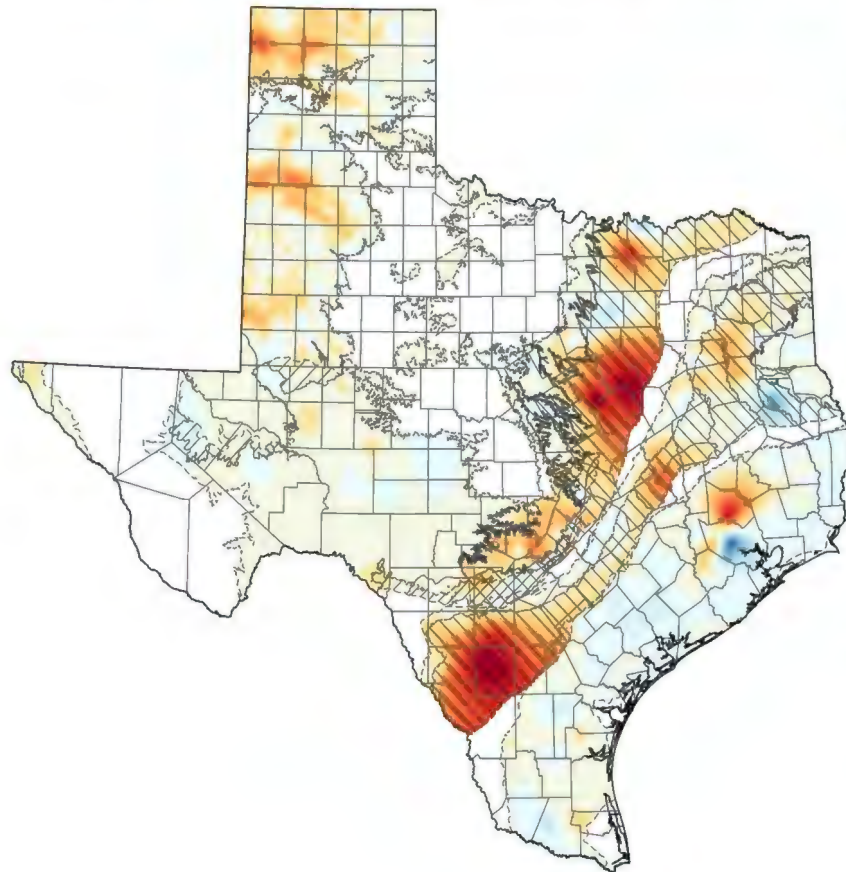
State Well Number 38-13-106, Anderson County  
Carrizo Sand, Carrizo-Wilcox Aquifer



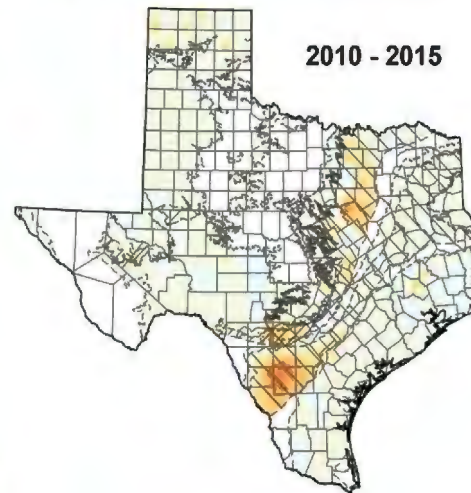
← Measurements go back to 1965

# Water Level Changes Over Time

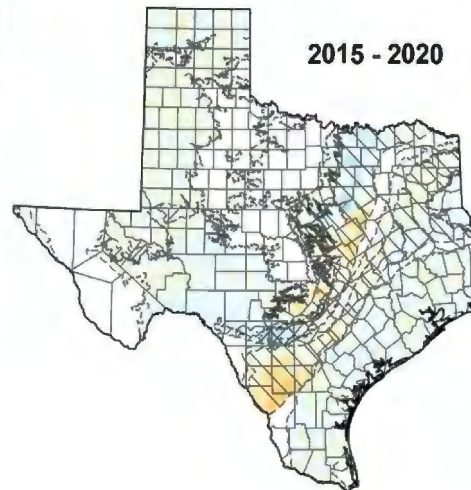
## Water Level Changes in Major Aquifers from 1990-2023



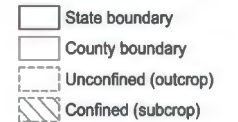
## 2010 - 2015



## 2015 - 2020



### Water level change, feet



# TWDB's Role in Groundwater Management and Planning

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# TWDB's Role in Groundwater Management and Planning



## Scientific & Technical

- Collect and provide groundwater data
- Develop regional groundwater availability models for joint groundwater planning
- Provide data to support groundwater management plan and DFC development
- Calculate modeled available groundwater



## Administrative

**Groundwater management plan review and approval**

**Administrative review of DFC explanatory reports**


Integrating modeled available groundwater into the state water plan

Provide guidance on statutory requirements


# GCD Management Plans

*Requirements in Texas Water Code § 36.1071*

- Must be developed using district's best available data

 TWDB provides required data to include in plans (MAGs, water use, water budget information, state water plan information)

 TWDB provides guidance on statutory requirements

 Reviewed and approved by the TWDB

## Recognition of Achievement

Presented to the

**Cow Creek  
Groundwater Conservation District**

in recognition of completing the

**District Groundwater Management Plan**

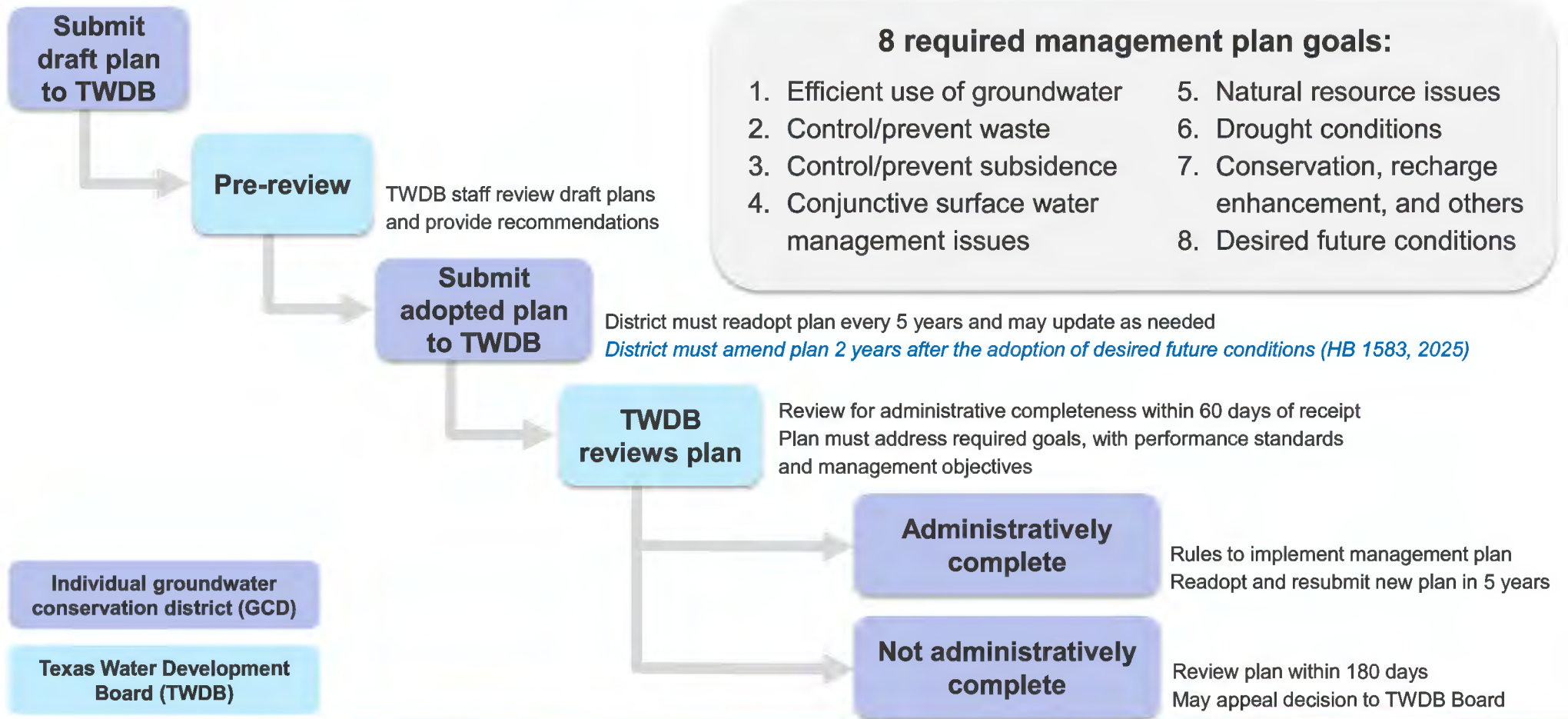
approved on January 14, 2025. A review of the management plan has documented that the plan is administratively complete and in compliance with Texas Water Code §36.1071 and 31 TAC 356.



Bryan McMath  
Executive Administrator







# Groundwater Management Plan: Review Process

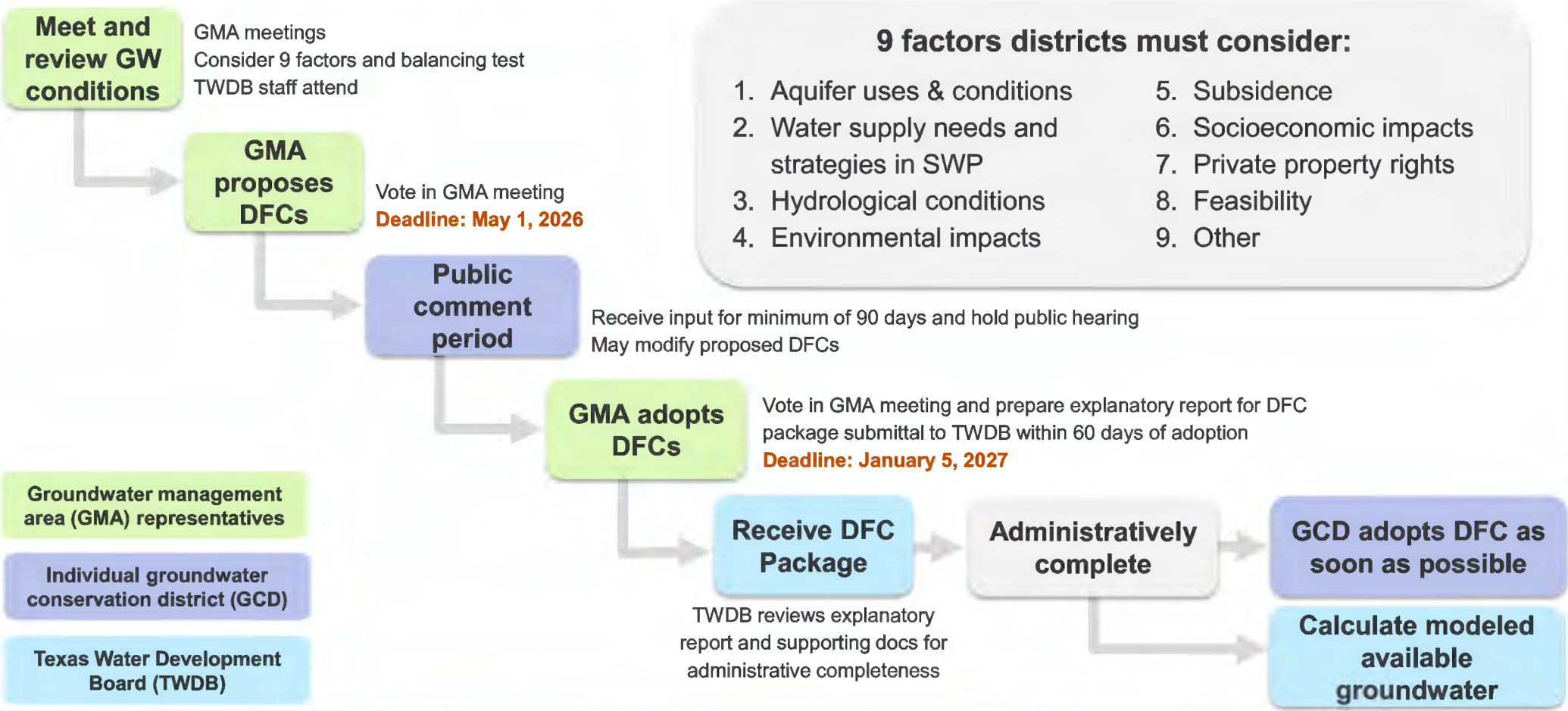


# Joint Groundwater Planning

*Requirements in Texas Water Code §§ 36.108, 36.1081, and 36.1084*

-  GCDs must consider TWDB groundwater availability models and other data/information in DFC development
-  TWDB staff attend all groundwater management area meetings and provide guidance on statutory requirements
-  TWDB reviews DFC explanatory reports for administrative completeness
-  TWDB estimates modeled available groundwater that will achieve adopted DFCs using TWDB groundwater availability models

# Desired Future Conditions (DFCs): Process to Adopt



# New GCD Science Grants Available

- FY2026: \$3.53 million\*
- Award amounts = \$50k - \$300k
- Only groundwater conservation districts (GCDs) may apply
- Two grant categories:
  1. Research and science
  2. Data collection
- Application Deadline: March 13, 2026, 2:00pm



[GCDGrants@twdb.Texas.gov](mailto:GCDGrants@twdb.Texas.gov)

*\*appropriations from Senate Bill 1, Article IX (89R Legislative Session)*

# Questions?

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