

Coastal Bend Groundwater Conservation District

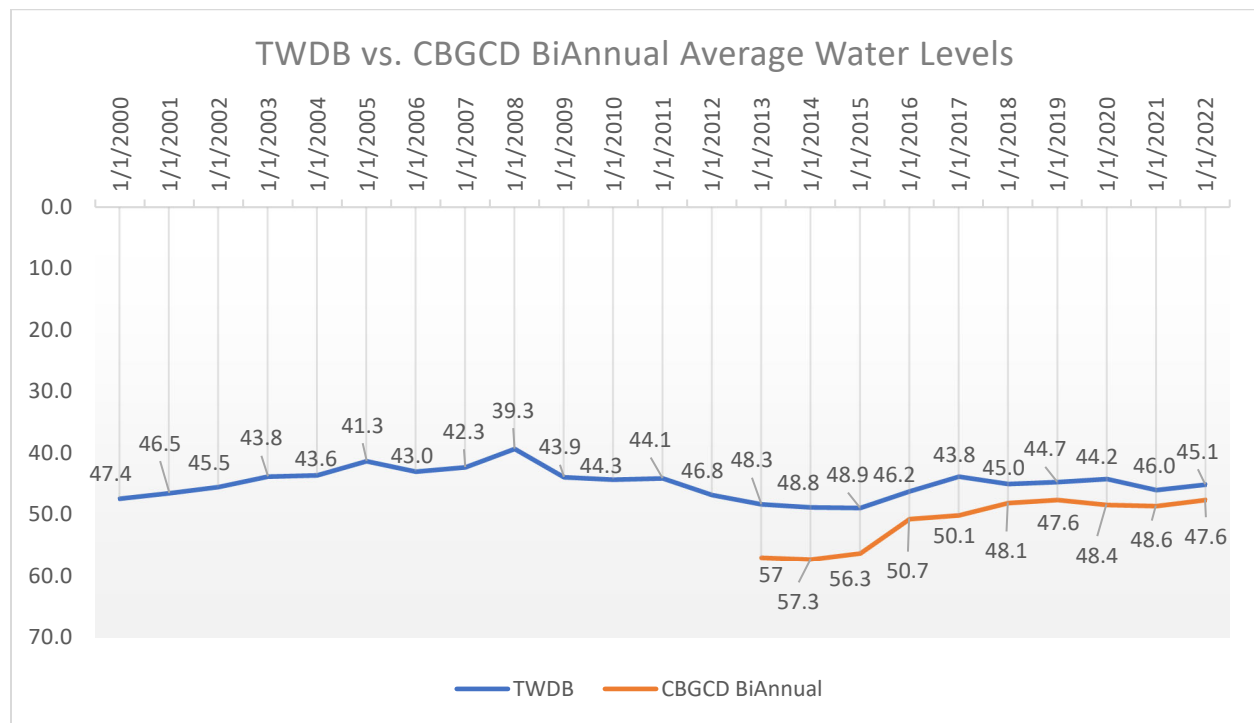
Desire Future Condition (DFC) Achievement Policy

As required by Texas Water Code, Section 36.108(d), not later than May 1, 2021, and every five years thereafter, the districts shall consider groundwater availability models and other data or information for the management area and shall propose for adoption Desired Future Conditions (“DFCs”) for the relevant aquifers within the management area.

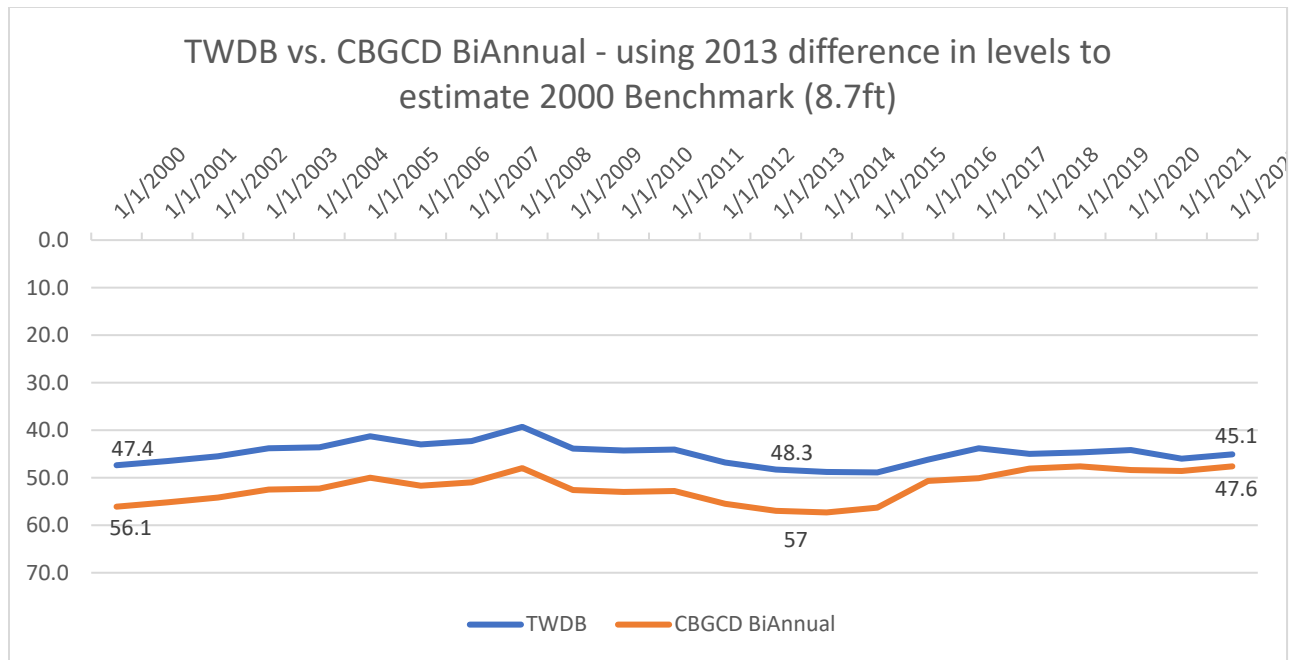
"Desired Future Condition" or "DFC" " means a quantitative description, adopted in accordance with Section 36.108, of the desired condition of the groundwater resources in a management area at one or more specified future times.

In the most recent round of joint planning for Groundwater Management Area 15, member districts adopted a GMA-wide DFC to limit the average drawdown to 13 feet for the Gulf Coast Aquifer system between the years 2000 and 2080. Specifically for Wharton County (CBGCD), a DFC of 15 feet average drawdown for the Chicot/Evangeline aquifers was adopted.

CBGCD developed and began monitoring a network of wells designated to monitor for DFC achievement in 2013. This network consists of 18 wells geographically spaced throughout the county with varying depths. Since this network of wells was not established until 2013, CBGCD decided to use TWDB monitor wells to establish the baseline water levels in the year 2000 and utilize those same baseline levels for CBGCD’s 18 DFC monitor wells. This graph shows the trend of TWDB wells (28) and CBGCD wells (18) from 2000-2022.



CBGCD uses the difference between the CBGCD and TWDB measurements for 2013 to extrapolate data for the prior years. In 2013, the difference in average water levels between the 2 monitor networks was 8.7 feet. This graph shows the difference in average water levels plotted back to 2000.



- ❖ TWDB Water Level Measurements taken within Jan 1 – Feb 15 of each calendar year
- ❖ CBGCD Water Level Measurement taken within March 1 – 15 of each calendar year

By using this method, CBGCD established an average water level for 2000 starting conditions of 56.1 feet below land surface. If the average water levels in the CBGCD monitor wells taken in March of calendar year drop below 71.1 feet below land surface at (exceeding the DFC of an average of 15 feet of decline since 2000), CBGCD would consider action to reduce permit allocations based on CBGCD Rule Section 6.11.