Item 5 – Setting of Decadal DFC Values

Groundwater conservation districts are now required to set interim Desired Future Conditions (DFC) for each aquifer for periods that do not exceed ten (10) years. These values are to be used as guideposts for districts as they evaluate where each aquifer DFC is in relation to the overall allowable artesian reduction.

Each district in GMA 12 is responsible for setting their own decadal DFC values. Advanced Groundwater Solutions (AGS) has been tasked by the BVGCD General Manager to determine a reasonable decadal reduction for the next five (5) decades that is in line with production use identified during the current planning period.

GMA 12 members adopted Desired Future Conditions for all aquifers November 9, 2026. Representatives also adopted the allowance of a ±10% variance for all aquifers represented in the Sparta/Queen City/Carrizo-Wilcox Groundwater Availability Model.

The initial decadal periods will be:

January 1, 2027 – December 31, 2036 (Decade 1)

January 1, 2037 – December 31, 2046 (Decade 2)

January 1, 2047 – December 31, 2056 (Decade 3)

January 1, 2057 – December 31, 2066 (Decade 4)

January 1, 2067 – December 31, 2076 (Decade 5)

The adopted BVGCD DFCs using the PPS4-5 GAM Run are as follows:

Table 1

Aquifer	Adopted DFC w/o Variance	10% Variance Added
Sparta	56	62
Queen City	45	50
Carrizo	78	86
Calvert Bluff	112	123
Simsboro	268	295
Hooper	179	197
Yegua-Jackson	68	N/A

After consulting AGS, District staff is recommending the initial decadal DFC values be as follows:

Table 2

Aquifer	Decade 1	Decade 2	Decade 3	Decade 4	Decade 5
% of DFC	65%	70%	80%	85%	90%
Sparta	40	43	50	53	56
Queen City	33	35	40	43	45
Carrizo	56	60	69	73	77
Calvert Bluff	80	86	98	105	111
Simsboro	192	207	236	251	266
Hooper	128	138	158	167	177
Yegua-Jackson	44	48	54	58	61

The percentages used for the decades described reflect the trigger levels contained in the curtailment rule.

The Brazos River Alluvium Aquifer DFC was adopted as follows:

North of State Highway 21: Percent saturation shall average at least 30% of total well depth from 2013-2080

South of State Highway 21: Percent saturation shall average at least 40% of total well depth from 2013-2080

(*The Brazos River Alluvium Aquifer DFC is not subject to a variance*)

It the is recommendation by the General Manager the decadal DFC values listed in Table 2 be adopted for the 2026 DFC planning round.