

WHEREAS, Texas Water Code Chapter 36.108 requires the Groundwater Conservation Districts located whole or in part in a Groundwater Management Area designated by the Texas Water Development Board to adopt desired future conditions for the relevant aquifers located within the management area;

WHEREAS, the groundwater conservation districts located wholly or partially within Groundwater Management Area 14, as designated by the Texas Water Development Board, as of the date of this resolution are as follows: Bluebonnet Groundwater Conservation District, Brazoria County Groundwater Conservation District, Lone Star Groundwater Conservation District, Lower Trinity Groundwater Conservation District, and Southeast Texas Groundwater Conservation District;

WHEREAS, Fort Bend Subsidence District, Harris-Galveston Subsidence District, and stakeholders from Chambers County and Washington County also contributed to the development of the desired future conditions for Groundwater Management Area 14; and

WHEREAS, the Fort Bend Subsidence District and Harris-Galveston Subsidence District, together encompassing Fort Bend, Harris and Galveston counties, regulate groundwater withdrawals within their jurisdictions, are not a voting member of Groundwater Management Area 14 and are not a groundwater conservation district; and

WHEREAS, the groundwater conservation districts of Groundwater Management Area 14 have met at various meetings and conducted joint planning in accordance with Texas Water Code Chapter 36.108 since September 2005; and

WHEREAS, the groundwater conservation districts of Groundwater Management Area 14 have solicited and considered public comment at specially called Public Meetings; and

WHEREAS, the groundwater conservation districts of Groundwater Management Area 14 received and considered technical advice regarding local aquifers, hydrology, geology, recharge characteristics, local groundwater demands and usage, population projections, ground and surface water inter-relationships, and other considerations that affect groundwater conditions; and

WHEREAS, the groundwater conservation districts of Groundwater Management Area 14 used this information to develop DFCs for the portions of the northern segment of the Gulf Coast Aquifer occurring within the bounds of Groundwater Management Area 14; and

WHEREAS, the groundwater conservation districts of Groundwater Management Area 14 declared the segments of the Carrizo-Wilcox Aquifer, Queen City Aquifer, Sparta Aquifer, Yegua-Jackson Aquifer, Brazos River Alluvium Aquifer, Navasota River Alluvium Aquifer, San Bernard River Alluvium Aquifer, San Jacinto River Alluvium Aquifer, and Trinity River Alluvium Aquifer occurring within the bounds of GMA 14 non-relevant for the purposes of joint planning; and

WHEREAS, the groundwater conservation districts of Groundwater Management Area 14 approach for the development of the desired future conditions included utilizing multiple metrics identified as limiting factors of the Gulf Coast Aquifer and constraints of the groundwater water availability model to utilize the best available science as well as address the 2016 petition of Lone Star Groundwater Conservation District's desired future conditions; and

WHEREAS, the groundwater conservation districts of Groundwater Management Area 14 conducted many model runs of the updated Northern Gulf Coast Groundwater Availability Model with various pumping distributions in each county and the desired future condition presented below was consistent with the distribution used in the 2016 round of joint planning in Groundwater Management Area 14; and

WHEREAS, the groundwater withdrawals utilized as well data pumping in the groundwater availability model for the counties within the Subsidence Districts was held at the levels allowed in their current regulatory plans (Fort Bend Subsidence District, 2013; Harris-Galveston Subsidence District, 2013) for the purpose of evaluating and developing the desired future conditions for other counties in Groundwater Management Area 14; and

WHEREAS, the modeled pumping demand in each county was set at a maximum of 30,000 acre-feet per year above the maximum projected water demand between 2020 and 2070 in the current State Water Plan to allow for additional growth and to constrain a model flaw of the general head boundary; and

WHEREAS, following public discussion and due consideration of the current and future needs and conditions of the aquifers in question, the current and projected groundwater demands, and the potential effects on springs, surface water, habitat, and water-dependent species through the year 2080, the groundwater conservation districts of Groundwater Management Area 14 have analyzed drawdown estimations from numerous pumping scenarios using the Houston Area Groundwater Availability Model and have voted on a motion made and seconded to adopt a desired future condition stated as follows:

In each county in Groundwater Management Area 14, no less than 70 percent median available drawdown remaining in 2080 or no more than an average of 1.0 additional foot of subsidence between 2009 and 2080.

WHEREAS, Texas Water Code Chapter 36.108(d-4), states “after a district receives notification from the Texas Water Development Board that the desired future conditions resolution and explanatory report under Subsection (d-3) are administratively complete, the district shall adopt the applicable desired future conditions in the resolution and report”; and

WHEREAS, Texas Administrative Code Chapter 356.52 requires that the management objectives be specific and time-based statements of future outcomes that are linked to a management goal, in addition performance standards for each management objective are required to evaluate the effectiveness and efficiency of district activities; and

WHEREAS, the implementation of the desired future condition involves taking the single Groundwater Management Area 14-wide desired future condition statement and quantifying it for use as a management goal and objective for inclusion in the district’s management plan; and

WHEREAS, the updated Northern Gulf Coast Groundwater Availability Model simulation that serves as the basis for the Groundwater Management Area 14-wide desired future condition provides the foundation for the desired future condition adopted by the district;

NOW THEREFORE BE IT RESOLVED, that the groundwater conservation districts of Groundwater Management Area 14 do hereby document, record and confirm a desired future condition stated above and below was adopted by all member districts present.

In each county in Groundwater Management Area 14, no less than 70 percent median available drawdown remaining in 2080 or no more than an average of 1.0 additional foot of subsidence between 2009 and 2080.

AND IT IS SO ORDERED.

PASSED AND ADOPTED on this 5<sup>th</sup> day of January 2022.

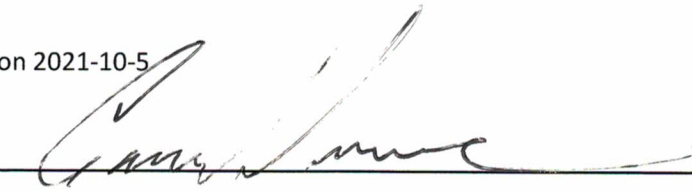
Signed  \_\_\_\_\_  
Mr. Zach Holland Bluebonnet Groundwater Conservation District

Signed  \_\_\_\_\_  
Ms. Beverly Hopkins Brazoria County Groundwater Conservation District

Signed  \_\_\_\_\_  
Ms. Samantha Reiter Lone Star Groundwater Conservation District

Resolution 2021-10-5

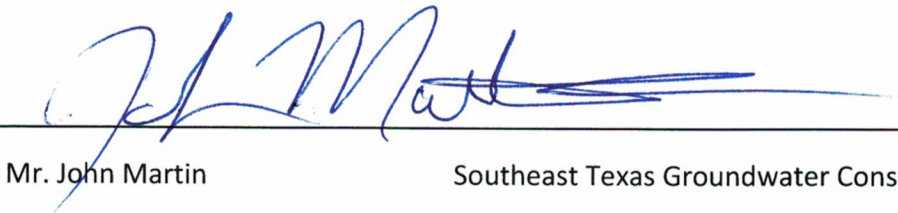
Signed



Mr. Gary Ashmore

Lower Trinity Groundwater Conservation District

Signed



Mr. John Martin

Southeast Texas Groundwater Conservation District