LONE STAR
GROUNDWATER CONSERVATION DISTRICT

June 18, 2020

MINUTES OF SPECIAL BOARD MEETING

The Board of Directors of the Lone Star Groundwater Conservation District ("District") met in special session, open to the public, in the Lone Star GCD – James B. "Jim" Wesley Board Room located at 655 Conroe Park North Drive, Conroe, Texas and also held via a publicly accessible webinar/telephone conference call, within the boundaries of the District on June 18, 2020.

CALL TO ORDER:

President Hardman presided and called to order the regular Board of Directors meeting at 6:02 PM, announcing that it was open to the public.

ROLL CALL:

The roll was called of the members of the Board of Directors, to wit:

Jon Paul Bouché
Harry Hardman
Jonathan Prykryl
Larry A. Rogers
Jim Spigener
Stuart Traylor

All members of the Board were present, thus constituting a quorum of the Board of Directors. Also, in attendance at said meeting were Samantha Reiter, General Manager; Stacey V. Reese, District Counsel; District staff; and members of the public. ***Copies of the public sign-in sheets and comment cards received are attached hereto as Exhibit "A".***

PRAYER AND PLEDGES OF ALLEGIANCE:

President Hardman called on Director Bouché for the opening prayer and Director Larry A. Rogers to lead the Pledge of Allegiance and the Pledge of Allegiance to the state flag.

PUBLIC COMMENTS:

No public comments.

EXECUTIVE SESSION:

No executive session.

RECONVENE IN OPEN SESSION:

None needed.

RECEIVE PRESENTATION ON THE SUBSIDENCE STUDY PHASE I DRAFT REPORT:

Ms. Reiter explained that both technical consultants, Mike Thornhill and Mike Keester were online and making their reports via webinar.

a) Discussion, consideration, and possible action regarding approval of the Subsidence Study Phase I Draft Report for publication in preparation for Stakeholder Meeting.

Mr. Mike Thornhill, District technical consultant, outlined Phase I topics of the study being: hydrogeology and subsidence, existing studies and data, preliminary modeling, regulation and management, Phase I conclusions and Phase 2 scope of work.

Mike Keester discussed hydrostratigraphy for the county. He reviewed the subsidence process and displayed a contour map showing subsidence in Montgomery County and noting that over a 5-year period there is generally an average subsidence rate of 0.5 inches per year. In his assessment, he cited the three primary factors affecting the potential subsidence as clay with distribution thickness; water level change and the historical water level. A change in stress on the formation is what causes compaction. He mentioned that the HGSD estimated that Montgomery County has experienced 3-feet of subsidence since 1906.

Mr. Mike Thornhill noted the importance of using the existing studies and data throughout Phase I. One such study he cited was the Gabrysch and Bonnet Land-Surface Subsidence Study where core samples were gathered from the Chicot and Evangeline aquifers. He also discussed the 12 extensometers in the area for the Chicot and Evangeline. Presently, there are no extensometers in Montgomery County. Director Spigener made point that since no extensometers exist in Jasper aquifer, then the know the source of the subsidence remains inconclusive.

The next topic examined was remote sensing made up of two types called LiDAR and InSAR. The Chicot water levels have shown very little decline. Mike Keester explained the hydrographs for the Evangeline indicate more pronounced water level decline during the period of 1988-2009, and subsequently there was a slight rise in water level during 2018-2019 as compared to 2009. The Jasper aquifer water levels have increased levels over the past thirty years.

Mr. Thornhill concluded the Phase 1 Study with the following: subsidence has and will continue to occur in the Gulf Coast Area; much of the subsidence in Montgomery

County was evident prior to substantial pumping within the county; growth fault movement may be due to several factors; compaction susceptibility varies with age, depth character, and thickness; and developed comprehensive background data and understanding for Phase 2 investigations. *A copy of the DRAFT Subsidence Investigations Phase I Study is attached hereto as Exhibit "B".*

Director Spigener motioned to approve the Phase I Subsidence Study report and Director Larry A. Rogers seconded. Motion passed.

RECEIVE PRESENTATION FROM DISTRICT'S TECHNICAL CONSULTANT REGARDING PHASE 2 OF SUBSIDENCE STUDY AND/OR DISCUSSION REGARDING THE SAME:

Mr. Mike Keester exhibited an overview of the Phase 2 scope of work and reviewed the tasks which include: the technical evaluations of existing data and recent studies, drainage and flooding, subsidence modeling, potential impacts to drainage and flooding, reporting, recommendations and presentations.

NEW BUSINESS:

There was no new business.

ADJOURN:

There being no further business Director Traylor motioned to adjourn the meeting and Director Spigener seconded. The meeting was adjourned at 6:59 PM.

PASSED, APPROVED, AND ADOPTED THIS 14th DAY OF JULY 2020.

Larry A. Rogers, Board Secretary

SIGN IN SHEET

June 18, 2020
Special Board Meeting

Do you wish to speak on an agenda item?	NAME	CITY, STATE, ZIP	E-Mail	Would you like to receive LSGCD updates & information?
N	TINA FELKAI	CONROE TX	ON FILE	

Exhibit "A"