

**NORTH TEXAS
GROUNDWATER
CONSERVATION
DISTRICT**

BOARD MEETING

**MUSTANG SUD ADMINISTRATIVE OFFICES
7985 FM 2931
AUBREY, TEXAS**

**TUESDAY
SEPTEMBER 13, 2016
10:00 AM**

NOTICE OF PUBLIC MEETING

OF THE
BOARD OF DIRECTORS of the

NORTH TEXAS GROUNDWATER CONSERVATION DISTRICT
at the

Mustang SUD Administrative Offices
7985 FM 2931
Aubrey, Texas
Tuesday, September 13, 2016, at 10:00 a.m.

Board Meeting

The regular Board Meeting will begin at 10:00 a.m.

Notice is hereby given that the Board of Directors of the North Texas Groundwater Conservation District ("District") may discuss, consider, and take all necessary action, including expenditure of funds, regarding each of the agenda items below:

Agenda:

1. Pledge of Allegiance and Invocation
2. Call to order, establish quorum; declare meeting open to the public
3. Public comment
4. Presentation of Plaque of Appreciation to former Board President - Thomas Smith
4. Consider and act upon approval of the minutes from the July 19, 2016, board meeting
5. Consider and act upon approval of invoices and reimbursements
6. Receive reports from the following Committees*:
 - a. Budget and Finance Committee
 - 1) Receive Monthly Financial Information
 - b. Investment Committee
 - 1) Earmark Reserve Fund Allocations
 - c. Rules and Bylaws Committee
 - d. Groundwater Monitoring and Database Committee
 - e. Policy and Personnel Committee
 - f. Conservation and Public Awareness Committee
 - g. Management Plan Committee
 - h. Desired Future Condition Committee

7. Consider and act upon authorizing LBG Guyton Associates to prepare a Technical Memo for Model Run 10 on behalf of Groundwater Management Area 8
8. Update and possible action regarding the process for the development of Desired Future Conditions (DFCs)
9. Consider and act upon compliance and enforcement activities for violations of District
10. General Manager's Report: The General Manager will update the board on operational, educational and other activities of the District
11. Open forum / discussion of new business for future meeting agendas
12. Adjourn public meeting

* Reports from District standing committees will include a briefing by each committee for the Board on the activities of the committee, if any, since the last regular Board meeting.

The above agenda schedules represent an estimate of the order for the indicated items and is subject to change at any time.

These public meetings are available to all persons regardless of disability. If you require special assistance to attend the meeting, please call (855) 426-4433 at least 24 hours in advance of the meeting to coordinate any special physical access arrangements.

For questions regarding this notice, please contact Velma Starks at (855) 426-4433, at ntgcd@northtexasgcd.org, or at 5100 Airport Drive, Denison, TX 75020.

At any time during the meeting or work session and in compliance with the Texas Open Meetings Act, Chapter 551, Government Code, Vernon's Texas Codes, Annotated, the North Texas Groundwater Conservation District Board may meet in executive session on any of the above agenda items or other lawful items for consultation concerning attorney-client matters (§551.071); deliberation regarding real property (§551.072); deliberation regarding prospective gifts (§551.073); personnel matters (§551.074); and deliberation regarding security devices (§551.076). Any subject discussed in executive session may be subject to action during an open meeting.

ATTACHMENT 4

**MINUTES OF THE BOARD OF DIRECTORS' MEETING
NORTH TEXAS GROUNDWATER CONSERVATION DISTRICT**

TUESDAY, JULY 19, 2016

**MUSTANG SUD ADMINISTRATIVE OFFICES
7985 FM 2931
AUBREY, TEXAS**

Members Present: Eddy Daniel, Chris Boyd, Evan Groeschel, Kenny Klement, and Ronny Young

Members Absent: Joseph Helmberger, Philip Sanders, Thomas Smith, Ron Sellman

Staff: Drew Satterwhite, P.E., Debi Atkins, Velma Starks, Scott Perry, Wayne Parkman, Carolyn Bennett

Visitors: James Beach, LBG Guyton
Neal Welch, City of Sanger
Carl Deaton, Hankins, Eastup, Deaton, Tonn & Seay, PC
Peter Schulmeyer, Collins Consulting

1. President Daniel led the group in the Pledge of Allegiance and provided the invocation
2. Call to order, establish quorum; declare meeting open to the public.
President Daniel called the meeting to order at 10:14am, established a quorum was present, and declared the meeting open to the public.
3. Public comment
There were no citizens present requesting to appear before the Board of Directors for public comment.
4. Consider and act upon approval of Minutes from the May 10, 2016 hearing and board meeting
Motion was made by Ronny Young and seconded by Even Groeschel to approve the Minutes from the May 10, 2016 board meeting. Motion passed unanimously.
5. Consider and act upon approval of invoices and reimbursements.
After a brief discussion, Chris Boyd made a motion to approve Resolution 2016-07-19-01. Ronny Young seconded the motion. Motion passed unanimously.
6. Consider and act upon 2015 Audit
General Manager Satterwhite introduced Carl Deaton of Hankins, Eastup, Deaton, Tonn & Seay, PC, the firm conducting the audit of the financial statements for the District for the 2015 fiscal year. Mr. Deaton reviewed the audited financial statements for fiscal year 2015 with the Board of

Directors. Mr. Deaton stated the District's finances are in good shape, and the Authority staff has performed well in managing the District's financial records.

Chris Boyd made a motion to accept the audited financial statements for 2015. Ronny Young seconded the motion, and the motion passed unanimously.

7. Receive reports from the following Committees*:

a. Budget and Finance Committee

1) Receive Monthly Financial Information

General Manager Drew Satterwhite reviewed the financial information with the Board.

2) Consider and act upon 2017 Operating Budget and adopt rate schedule.

President Daniel stated the Budget and Finance Committee met with District staff and compiled the budget for 2017. General Manager Satterwhite reviewed the proposed budget with the Board and the proposed rate schedule. An additional staff member is proposed for hydrogeologist duties, to assist with development of permanent rules and permitting. GMA8 expenses are anticipated to drop, with the DFC process completed. Legal expenditures were increased due to the permanent rule process. Software maintenance was increased for the coming year. Reserve funds dedicated for various interests were discussed.

Ronny Young moved to approve Resolution No. 2016-07-19-02 adopt the budget for 2017. Chris Boyd seconded the motion and the motion passed unanimously.

The Board discussed the current fee schedule, and if there was a need to adjust the fees at this time. It was the consensus of the Board that the current fees remain in place for the 2017 fiscal year, as follows:

Well Registration Fee	\$100
Well Driller Log Deposit Fee	\$100 (refundable if log submitted within 60 days)
Agricultural Water Use Fee	\$1 per acre foot
Non-Exempt Water Use Fee	\$0.10 per 1,000 gallons
Failure to Pay Water Use Fee within 30-days	15%
Failure to Pay Water Use Fee within 60-days	Major Violation – See Appendix A of the Temporary Rules for Schedule of Violations

Ronny Young moved to adopt the fee schedule as presented. Chris Boyd seconded the motion and the motion passed unanimously.

b. Investment Committee

General Manager Satterwhite reviewed the investment report with the Board.

c. Rules and Bylaws Committee

No report.

d. Groundwater Monitoring and Database Committee

General Manager Satterwhite informed the Board RFQ's will be solicited as soon as possible.

e. Policy and Personnel Committee

No report.

f. Conservation and Public Awareness Committee

No report.

g. Management Plan Committee

1) Consider and act upon authorizing LBG Guyton Associates to begin developing the District's Management Plan.

President Daniel discussed the District's Management Plan and the need to update the Plan with the Board, as it is set to expire on June 19, 2017. General Manager Satterwhite stated LBG Guyton Associates is qualified to perform this work, and the staff feels it would be beneficial to have the District's Hydrogeologist perform this work due to their familiarity with the District's hydrogeology and operation.

Board Member Ronny Young made a motion to authorize District staff to begin working with James Beach of LBG-Guyton Associates to begin developing the District's Management Plan update, as presented in the Scope of Work and Cost Estimate for Updating the Management Plan for North Texas Groundwater Conservation District provided by LBG-Guyton Associates. Board Member Evan Groeschel seconded the motion and the motion passed unanimously.

2) Receive Quarterly Report on Management Plan

General Manager Satterwhite reviewed the Quarterly Report on the Management Plan with the Board of Directors.

h. Desired Future Condition Committee

No report.

8. Update and possible action regarding the process for the development of Desired Future Conditions (DFCs).

President Daniel stated GMA8 will meet around September and information will be available after this meeting regarding the Desired Future Conditions for the District.

9. Consider and act upon approval of a District Newsletter

General Manager Satterwhite discussed the proposed newsletter with the Board. Mr. Satterwhite asked the Board for their thoughts on the contents of the newsletter, and dissemination of the newsletter. One area of the newsletter needs to be updated – weather predictions, and anything requested to be added or changed by the Board in the next few days. It was the consensus of the Board to place the newsletter in the administrative offices of the water providers, local chambers of commerce, agricultural extension offices, have available to hand out at presentations, send in an email blast with offer to provide copies, and on the District's website with link to the registration form.

10. Consider and act upon authorizing the migration of the District and Groundwater Management Area 8 website to a new website development platform

General Manager Satterwhite informed the Board of the need to migrate the District's and GMA8 websites to a new website development platform. Evan Groeschel made a motion to authorize migration of the District and GMA8 website to a new website development platform. Chris Boyd seconded the motion and motion passed unanimously.

11. Receive presentation from LBG Guyton Associates on draft Water Level Monitoring Plan

General Manager Satterwhite stated LBG-Guyton Associates has prepared a presentation regarding the District's Water Level Monitoring Plan. James Beach of LBG-Guyton Associates provided the board with an overview the District's Water Level Declines and Development of Well Network to Support Desired Future Conditions for North Texas GCD.

12. Consider and act upon approving and submitting the District's Desired Future Conditions Summary Report for GMA8

President Daniel reviewed the Desired Future Conditions Summary Report requirements with the Board. General Manager Satterwhite informed the Board as of July 12, 2016 at 5:00pm, the close of the required 90-day comment period, no verbal or written comments had been received on the report. Mr. Satterwhite stated the staff recommends the Board authorize the resolution approving the Summary Report for submission to GMA8.

Kenny Klement made a motion to approve the Resolution 2016-07-19-04 adopting the Summary Report for submission to the GMA8. Ronny Young seconded the motion, and the motion passed unanimously.

13. Consider and act upon compliance and enforcement activities for violations of District.

There were no compliance or enforcement activities necessary to be considered by the Board at this time.

14. General Manager's Report: The General Manager will update the Board on operational, educational, and other activities of the District.

General Manager Satterwhite reviewed well registration summaries with the Board, and updated the Board on the letters provided the County Commissioners accompanying the final payment of the loan provided to the District. Collin County's letter and final payment has been delivered. Denton County and Cooke County letters are ready for signature by the Board Members.

15. Open Forum / discussion of new business for future meeting agendas

President Daniel asked if there were any items of discussion requested by the Board for future agendas. Board members asked that the staff submit a list of equipment and supplies that may be needed for managing the District's well monitoring program or any other program(s) required of the District. Future discussion was requested for: 1) possible fee reduction, 2) designating funds for legal, equipment, and other activities such as constant level monitoring wells, etc.

16. Adjourn public meeting

President Daniel declared the meeting adjourned at 11:52 a.m.

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Recording Secretary

Secretary-Treasurer

ATTACHMENT 7



AGENDA COMMUNICATION

DATE: September 9, 2016

SUBJECT: AGENDA ITEM NO. 7

CONSIDER AND ACT UPON AUTHORIZING LBG GUYTON ASSOCIATES TO PREPARE A TECHNICAL MEMO FOR MODEL RUN 10 ON BEHALF OF GROUNDWATER MANAGEMENT AREA 8

ISSUE

The Texas Water Development Board requires a technical memorandum to be submitted on behalf of each Groundwater Management Area (“GMA”) that addresses the Groundwater Availability Modeling Technical Elements and Aquifer Assessments Elements for the model run in which the GMA is basing their DFC upon.

BACKGROUND

In early December 2015, the District authorized LBG Guyton Associates to perform run 10 of the Northern Trinity Woodbine Groundwater Availability Model. Model Run 10 was ultimately accepted by the GMA 8 as the proposed Desired Future Condition (“DFC”). After the proposed DFC was voted on by the GMA 8, the Districts all entered their public comment period which ended on July 12 at 5:00 pm.

At this point, 10 of 11 Districts have submitted their summary reports and we do not anticipate any Districts to request modifications to model run 10.

The Texas Water Development Board (“TWDB”) requires a technical memorandum to be submitted on behalf of each GMA that addresses the Groundwater Availability Modeling Technical Elements and Aquifer Assessments Elements for the model run in which the GMA is basing their DFC upon. The next step in moving forward with a final DFC will be to prepare the above referenced technical memorandum to accompany the explanatory report for submission to the TWDB.

CONSIDERATIONS

This work item was included in an original itemized scope of work from LBG Guyton Associates. However, the District did not authorize this work item (task 5) at the time because we were unsure of which model run would ultimately end up being proposed as a DFC by GMA 8.

This work will be necessary to be performed by the GMA 8 assuming the GMA approves run 10 with no changes at the upcoming GMA 8 meeting.

If approved, the District would wait to sign the agreement until after the upcoming GMA 8 meeting at which there is an agenda item to authorize LBG Guyton to perform this work.

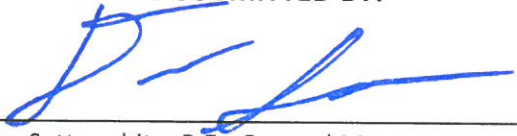
STAFF RECOMMENDATIONS

The staff recommends authorizing the execution of the agreement with LBG Guyton to develop the run 10 technical memorandum contingent upon the GMA 8 group authorizing the work as well.

Attachments

Scope of Work

PREPARED AND SUBMITTED BY:

A handwritten signature in blue ink, appearing to be 'Drew Satterwhite', written over a horizontal line.

Drew Satterwhite, P.E., General Manager

LBG-GUYTON ASSOCIATES

PROFESSIONAL GROUNDWATER AND ENVIRONMENTAL ENGINEERING

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December 14, 2015

Mr. Drew Satterwhite, General Manager
North Texas Groundwater Conservation District
PO Box 508
Gainesville, Texas 76241

Re: Proposal for Conducting “Run 10” Predictive Simulation in Support of GMA-8 Joint Planning

Dear Mr. Satterwhite:

Per your request, LBG-Guyton Associates has prepared this proposal for conducting a predictive simulation (Run 10) to provide the North Texas Groundwater Conservation District (NTGCD) Desired Future Conditions (DFC) Committee information in support of the Groundwater Management Area (GMA) 8 joint planning effort. Our proposed work is designed to provide the DFC Committee with necessary and sufficient information for discussing potential desired future conditions with the rest of GMA-8. We understand that other GMA-8 Districts may wish to join NTGCD in this proposed run, but that all work will be conducted on behalf of NTGCD. Our proposed scope of work includes the following tasks:

1. Coordinate with NTGCD and any other joining districts to update pumping amounts and locations relative to previous model runs. We will use “Run 9” as a basis for pumping in the southern portion of GMA-8, but will allow those districts to make changes if required. We anticipate the pumping amounts to be some multiple on each layer of the pumping simulated in “Run 5” conducted for GMA-8. The assigned multiple may be different for each aquifer to adequately represent potential future use and acceptable amount of water level decline. We also anticipate there may be some modifications to pumping locations to reflect the addition of wells or permits since 2010. To allow sufficient time for conducting the model simulation, pumping modifications would need to be submitted by December 21, 2015 and the updated pumping file will be completed by December 22, 2015.
2. Following development of the pumping file, we will perform the simulation using the Texas Water Development Board (TWDB) accepted version of the Updated Groundwater Availability Model of the Northern Trinity and Woodbine Aquifers (NTWGAM). We anticipate completion of the simulation by December 24, 2015.

3. After the simulation is complete, we will expedite our evaluation of the results. Our baseline simulated water level for the evaluations will be January 1, 2010; this time represents the beginning of the “Run 5” pumping. Our evaluations will be conducted for the regions and aquifers delineated on Figure 4.1.4 of the NTWGAM model report (Kelley, et al., 2014). All calculations will use areas defined per the model grid shapefile developed by the TWDB (http://www.twdb.texas.gov/groundwater/models/gam/trnt_n/trnt_n.asp). Our proposed work includes preparing the following deliverables:
 - a. Tables summarizing the percent of January 1, 2010 simulated water level remaining on December 31, 2070. These values will be calculated from both the bottom and top of the regional aquifer on a:
 - i. County basis
 - ii. District basis
 - iii. Regional basis weighted by land area in each county that the region covers – land area will be assigned based on the grid cells assigned to the county in the region
 - iv. GMA-8 basis
 - b. Tables summarizing the average drawdown in feet from January 1, 2010 through December 31, 2070. These values will be calculated for each regional aquifer on a:
 - i. County basis
 - ii. District basis
 - iii. Regional basis weighted by land area in each county that the region covers – land area will be assigned based on the grid cells assigned to the county in the region
 - iv. GMA-8 basis
 - c. Tabulation of the model water budget during 2070 for each county in GMA-8
 - d. Report discussing the run, methodology for evaluation, and results. We will also include a map of the five defined regions overlaid with all of the GCDs and counties in GMA-8. We anticipate providing a draft of the evaluation by January 5, 2016 for preliminary discussion and comment. We will complete our evaluation and provide an electronic PDF of the report via email by January 7, 2016. By January 14, 2016 we will provide the following deliverables:
 - i. An electronic PDF report containing all text, maps, figures, and charts and a discussion of the methodology used to produce the reported results;
 - ii. 11 hard copies of the report so that we can give the information to the other Districts;



- iii. 11 portable hard drives with a well-organized directory structure containing all the electronic files, including the MODFLOW input and output files, GIS files (including, .mxd and all supporting shapefiles and grid files);
 - iv. Source and executable codes used for pre- and post-processing of model data and results; and,
 - v. A readme file containing an explanation of files will also be included if the files are not contained in the TWDB archive of the NTWGAM.
4. Upon request, we will present the results of the simulation to GMA-8 at the meeting on January 22, 2016.
 5. Optionally, and upon request, we will also prepare a detailed memo for submittal to the TWDB that addresses the “Groundwater Availability Modeling Technical Elements” and “Aquifer Assessments Elements” of the TWDB’s “Desired Future Condition Submission Packet Checklist” as applicable (http://www.twdb.texas.gov/groundwater/docs/DesiredFutureConditionsTWDB_Checklist_for_Submittals_Explanatory_Reports_and_Model_Files.pdf).

We understand that time is critical for this project and that it is your goal to have the information presented in a manner that would allow you to forward the results to GMA-8 as a general DFC statement. Our cost estimate for Tasks 1 through 4 is \$13,942 (see attached budget estimate for a breakdown by task). If the optional Task 5 is authorized, it will cost \$4,978. In order to meet each of the anticipated deadlines, we will begin work immediately upon authorization.

We appreciate the opportunity to provide you with this proposed scope of work and to assist you during the joint planning process. If you have any questions, please do not hesitate to contact me at (512) 327-9640.

Sincerely,
LBG-GUYTON ASSOCIATES

James Beach, P.G.
Senior Vice President

attachment



LBG-Guyton Associates

Authorization for Tasks 1 through 4

Signature: _____

Name: _____

Title: _____

Date: _____

Authorization for Task 5

Signature: _____

Name: _____

Title: _____

Date: _____



Conducting Predictive Simulation (Run 10) in Support of GMA 8 Joint Planning Budget Estimate
 LBG-Guyton - December 2015

	Project Manager	Senior QC	Senior Hydrogeologist	Staff Hydrogeologist	Clerical and Technician	Total Hours by Task	Direct Expense (travel/meals, etc.)	Totals by Task
Task 1 - Preparation of Pumping File	2	1	8	4	-	15	\$ -	\$ 2,164
Task 2 - Model Simulation	-	-	4	-	-	4	\$ -	\$ 592
Task 3 - Simulation Evaluation	2	1	20	24	-	47	\$ -	\$ 5,940
Task 4 - Evaluation Presentation	10	-	12	8	4	34	\$ 500	\$ 5,246
Total								\$ 13,942
Optional Task 5 - TWDB Memo	8	-	16	8	-	32	\$ 250	\$ 4,978
Total Hours by Category	22	2	60	44	4	132	\$ 750	
Billing Rate	\$195	\$190	\$148	\$100	\$55			
Total Fees	\$4,290	\$380	\$8,880	\$4,400	\$220		\$750	\$18,920



ATTACHMENT 10

North Texas Groundwater Conservation District

Well Registration Summary
As of July-29-2016

Well Type	Total Registered Collin County	Total Registered Cooke County	Total Registered Denton County	Total NTGCD	New Registrations since Jun-30-2016
Agriculture	6	11	33	50	0
Commercial / Small Business	4	8	20	32	0
Domestic Use (household / lawn watering at residence)	54	251	408	716	11
Filling a pond or other surface impoundment**	33	15	42	92	0
Golf course irrigation	15	2	22	39	0
Industrial / Manufacturing	6	9	4	20	0
Irrigation	60	5	120	186	4
Leachate	0	0	0	0	0
Livestock Watering	6	48	29	83	0
Monitoring	0	0	0	0	0
Municipal / Public Water System	34	69	209	315	0
Other	11	5	25	41	0
Piezometer	0	0	0	0	0
Poultry	0	0	0	0	0
Solely to supply water for rig actively***	1	1	7	9	0
Supplying water for oil or gas production*	0	5	53	60	0
Not Specified	12	11	33	57	0
SUM	242	440	1005	1700	15

North Texas Groundwater Conservation District

Well Registration Summary
As of August-31-2016

Well Type	Total Registered Collin County	Total Registered Cooke County	Total Registered Denton County	Total NTGCD	New Registrations since Jul-31-2016
Agriculture	6	11	33	50	0
Commercial / Small Business	4	8	20	32	0
Domestic Use (household / lawn watering at residence)	54	258	417	732	16
Filling a pond or other surface impoundment**	33	15	42	92	0
Golf course irrigation	15	2	22	39	0
Industrial / Manufacturing	6	9	4	20	0
Irrigation	60	5	122	188	2
Leachate	0	0	0	0	0
Livestock Watering	6	50	30	86	2
Monitoring	0	0	0	0	0
Municipal / Public Water System	34	70	210	316	1
Other	11	5	25	41	0
Piezometer	0	0	0	0	0
Poultry	0	0	0	0	0
Solely to supply water for rig actively***	1	1	7	9	0
Supplying water for oil or gas production *	0	5	52	59	0
Not Specified	12	11	33	57	0
SUM	242	450	1017	1721	21

ADJOURN