



MEMORANDUM

TO: Region C Water Planning Group

FROM: Stephanie W. Griffin, P.E.
Jeremy Rice

SUBJECT: Summary of County-Wide Meetings (Cooke, Fannin, Freestone, Grayson, Kaufman and Navarro)

DATE: April 14, 2009

The Region C Water Planning Group proposed conducting county studies for thirteen counties in Region C. Due to limited funding, the Texas Water Development Board (TWDB) approved two county wide studies for the 2007-2008 special studies and county-wide meetings in six additional Region C counties. The first two studies involved detailed analysis of population and demand projections, updates to current supplies and revisions to preferred water management strategies. One study focused on southwest Dallas, Ellis, Johnson and southeast Tarrant counties. The second study focused on Parker and Wise counties. In each study, significant growth was expected to have occurred since the *2006 Region C Water Plan* was completed.

The county-wide meetings were approved for Cooke, Fannin, Freestone, Grayson, Kaufman and Navarro Counties. One meeting in five of these counties was scheduled. Two meetings were scheduled in Kaufman County. The Region C Water Planning Group sent an invitation to each of the water user groups and wholesale water providers in the appropriate county, announcing the meeting date and location and encouraging the entities to participate. Attachment A includes a copy of the letter sent for each of these meetings.

At each meeting, the Region C consultant gave a presentation that summarized the population, demand and water management strategies for the specified county from the *2006 Region C Water Plan*. Current supplies and future supply strategies for each water user group and wholesale water provider were presented as well. Based on this presentation, the consultant led a discussion to identify any changed conditions from the *2006 Region C Water Plan*. The meetings focused on identifying changed conditions regarding:

- Population
- Demand
- Current supplies
- Current customers
- Future water management strategies
- Future customers

MEMORANDUM TO REGION C WATER PLANNING GROUP Summary of County-Wide Meetings (Cooke, Fannin, Freestone, Grayson, Kaufman and Navarro)

April 14, 2009

Page 2 of 4

Attachment B includes the detailed meeting notes for each county- wide meeting. This memorandum provides a summary of the discussion from each of the six county-wide meetings.

Cooke County Meeting

The county-wide meeting for Cooke County was held on March 24, 2008. Seven people participated in this meeting. Discussion in the meeting included the need to consider the addition of three entities as water user groups: Callisburg WSC, Mountain Springs WSC, and ERA Community WSC. The groundwater used for gas drilling in the Barnett Shale is having a significant impact on local groundwater wells in the county. The development of the Barnett Shale was not included in the *2006 Region C Water Plan* because the drilling started near the completion of the *2006 Region C Water Plan*. This water use is categorized as mining demand, and it will be included in the 2011 Region C Water Plan. The amount of Lake Texoma water allocated to communities in Cooke County was questioned. This strategy needs further review for the 2011 Region C Water Plan. Lastly, some discussion was held on the topic of Oklahoma water for North Texas. The Oklahoma water is a strategy in the *2006 Region C Water Plan*. This strategy will be updated pending the outcome of a current lawsuit.

Fannin County Meeting

The county-wide meeting for Fannin County was held on February 28, 2008. Approximately fifteen people participated in this meeting. During the discussion, the attendees were interested in the topic of Lake Ralph Hall water being used outside the county. Attendees of the meeting believe the population projections in the reservoir study do not accurately reflect current population trends. Additional discussion was held on the topic of Oklahoma water. The current plan includes water from Oklahoma, but at a later date and in a smaller amount than what water providers are currently pursuing.

Freestone County Meeting

The county-wide meeting for Freestone County was held on March 6, 2008. Three attendees participated in this meeting. During the discussion, we learned that the City of Teague does not use water from Teague City Lake and has no water treatment plant facilities. Teague relies solely on the Carrizo-Wilcox aquifer. The City of Wortham no longer uses water from Lake Wortham. Wortham purchases water through Mexia, which is groundwater purchased from the Bistone Water Supply District (Limestone County). The City of Wortham does not have the ability to treat surface water. The strategy in the *2006 Region C Water Plan* showing water treatment plant expansions for the City of Wortham should be removed. The City of Fairfield may be interested in becoming a regional water supplier by selling water from Richland-Chambers Reservoir. Currently, Fairfield has a contract with the Tarrant Regional Water District (TRWD) for 1.5 MGD. Neighboring communities expressed a desire for Fairfield to contract with TRWD for additional supplies before committing to the proposed regional system.

MEMORANDUM TO REGION C WATER PLANNING GROUP Summary of County-Wide Meetings (Cooke, Fannin, Freestone, Grayson, Kaufman and Navarro)

April 14, 2009

Page 3 of 4

Grayson County Meeting

The Grayson county-wide meeting was held on April 2, 2008. Approximately forty people attended this meeting. The issue of groundwater was mentioned by several attendees. The questions focused on the availability of groundwater as determined by the Groundwater Availability Model (GAM). The ability of cities to temporarily overdraft the aquifer in the *2006 Region C Water Plan* is intended to provide time for entities to convert from groundwater to surface water. The total groundwater supply from the model is less than what is currently being pumped. Thus, the available groundwater was distributed to all users at a smaller percentage than what they can actually produce. Several attendees disputed the amount of groundwater available according to the GAM. Questions were asked about the conservation strategies in the Region C Plan. The Oklahoma water was also discussed. The amount and the timing of the Oklahoma water management strategy may change based on the results of a current lawsuit.

Kaufman County Meetings

Two meetings were held for Kaufman County on March 14, 2008. The first meeting was held in the City of Terrell with one attendee and the second meeting was held in the City Kaufman with three participants.

At the meeting in Terrell, the City indicated that the population in Terrell is growing faster than the *2006 Region C Water Plan* projected. Terrell's industrial base is growing as well. Terrell is interested in developing reuse supply in the future.

At the meeting held in the City of Kaufman, it was suggested that the population projections for the county in the *2006 Region C Water Plan* were lower than the current population growth. The City of Crandall and the City of Terrell are both experiencing significant growth. Several water suppliers need to be considered for inclusion as stand-alone water user groups in the 2011 Region C Water Plan: Talty WSC, Forney Lake WSC, and Rose Hill SUD.

Navarro County Meeting

The Navarro county-wide meeting was held on March 6, 2008. Three people participated in this meeting. The population projections for the county from the *2006 Region C Water Plan* appear to remain appropriate. One significant change for the City of Corsicana is the timing of the pipeline to Richland-Chambers Reservoir. The *2006 Region C Water Plan* has the connection being completed in 2050. The pipeline is currently under construction and should be completed by the end of 2009. Corsicana is designing a new water treatment plant to treat this supply at the existing Lake Halbert Water Treatment Plant. The growth in water demand in Navarro County has been approximately 1 MGD every 10 years.

MEMORANDUM TO REGION C WATER PLANNING GROUP Summary of County-Wide Meetings (Cooke, Fannin, Freestone, Grayson, Kaufman and Navarro)

April 14, 2009

Page 4 of 4

Conclusions

A number of topics were repeatedly discussed at the county-wide meetings. The western counties are concerned with the impact the oil and gas drilling is having on local groundwater supplies, as well as the increased mining demand being included in the 2011 Region C Water Plan. The situation with potential Oklahoma water being transported to Texas is of great interest in the region. The results of the current litigation could open new opportunities for raw water in the region. Population and demand projections in the *2006 Region C Water Plan* appear to underestimate current and projected growth in one of these counties. A number of recommended water management strategies need to be updated in the 2011 plan as well.

The participants at these meetings appreciated the opportunity to provide input into the planning effort. The consultants found the information obtained through these meetings to be very useful for the Region C water planning effort

ATTACHMENT A
LETTERS INVITING WATER USER GROUPS AND WHOLESALE WATER
PROVIDERS TO COUNTY-WIDE MEETINGS

REGION C WATER PLANNING GROUP

Senate Bill One Third Round of Regional Water Planning - Texas Water Development Board

Board Members

James M. Parks, Chair
Jody Puckett, Vice-Chair
Russell Laughlin, Secretary
Steve Berry
Jerry W. Chapman
Frank Crumb
Jerry Johnson
Bill Lewis
G. K. Maenius
Howard Martin
Jim McCarter
Dr. Paul Phillips
Irvin M. Rice
Robert O. Scott
Connie Standridge
Jack Stevens
Danny Vance
Mary E. Vogelson
Tom Woodward

March 10, 2008

Dear Cooke County Water Provider:

The Region C Water Planning Group is currently working on its third round of regional water planning. The focus of the Region C work for 2007-08 is special studies. The intent of these special studies is to bring the recommended strategies in the *2006 Region C Water Plan* closer to fruition.

In 2007, the Region C Water Planning Group applied to the Texas Water Development Board (TWDB) for a number of special studies in the Region C area, including a Cooke County study. Due to budget constraints, the TWDB was unable to fund the full request. As a result, the Cooke County study was not funded. Region C was successful in obtaining funds to host a county-wide meeting in your county to discuss water planning issues.

The purpose of this county-wide meeting is to review the *2006 Region C Water Plan* for the county and obtain information on changed conditions in your area. Changed conditions might include:

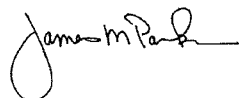
- More rapid growth than projected in the 2006 Plan
- Slower growth than projected in the 2006 Plan
- Additional water management strategies that the area is considering
- Information on recommended strategies that are no longer being pursued.

The consultant team for the Region C Water Planning Group is hosting a meeting to discuss these topics in a group setting with cities and water suppliers in your county. This meeting is scheduled for Monday, March 24, 2008 at 5:00 PM at the City of Gainesville Civic Center, 311 S Weaver Street, Gainesville, Texas.

The Region C Water Planning Group invites you (or a representative from your staff) to attend and participate in this meeting. The information you provide at this meeting will help the Planning Group determine the need for additional county studies for the 2009-2011 planning period.

If you have any questions about this meeting or the Region C Water Planning effort, please contact our consultant Stephanie Griffin of Freese and Nichols, Inc. at (817)735-7353 or by email at swg@freese.com. If you cannot attend the meeting but would like to provide input, please contact Stephanie by March 28, 2008. The Region C Water Planning Group appreciates your participation in the planning effort.

Sincerely,



James (Jim) M. Parks
Chair, Region C Water Planning Group

Cc: Russell Laughlin, RCWPG Secretary
Angela Masloff, Texas Water Development Board

c/o NTMWD
505 E. Brown Street
P. O. Box 2408
Wylie, Texas 75098-2408
972/442-5405
972/442-5405/Fax
jparks@ntmwd.com
www.regioncwater.org

REGION C WATER PLANNING GROUP

Senate Bill One Third Round of Regional Water Planning - Texas Water Development Board

Board Members

James M. Parks, Chair
Jody Puckett, Vice-Chair
Russell Laughlin, Secretary
Steve Berry
Jerry W. Chapman
Frank Crumb
Jerry Johnson
Bill Lewis
G. K. Maenius
Howard Martin
Jim McCarter
Dr. Paul Phillips
Irvin M. Rice
Robert O. Scott
Connie Standridge
Jack Stevens
Damy Vance
Mary E. Vogelsson
Tom Woodward

February 20, 2008

Dear Fannin County Water Supplier:

The Region C Water Planning Group is currently working on its third round of regional water planning. The focus of the Region C work for 2007-08 is special studies. The intent of these special studies is to bring the recommended strategies in the *2006 Region C Water Plan* closer to fruition.

In 2007, the Region C Water Planning Group applied to the Texas Water Development Board (TWDB) for a number of special studies in the Region C area, including a Fannin County study. Due to budget constraints, the TWDB was unable to fund the full request. As a result, the Fannin County study was not funded. Region C was successful in obtaining funds to host a county-wide meeting in your county to discuss water planning issues.

The purpose of this county-wide meeting is to review the *2006 Region C Water Plan* for the county and obtain information on changed conditions in your area. Changed conditions might include:

- More rapid growth than projected in the 2006 Plan
- Slower growth than projected in the 2006 Plan
- Additional water management strategies that the area is considering
- Information on recommended strategies that are no longer being pursued.

The consultant team for the Region C Water Planning Group is hosting a meeting to discuss these topics in a group setting with cities and water suppliers in your county. This meeting is scheduled as part of the agenda for the Fannin County Water Board. The meeting is scheduled on Thursday, February 28, 2008 at 4:00 PM and will be held at 210 South Main Street, Bonham, Texas.

The Region C Water Planning Group invites you (or a representative from your staff) to attend and participate in this meeting. The information you provide at this meeting will help the Planning Group determine the need for additional county studies for the 2009-2011 planning period.

If you have any questions about this meeting or the Region C Water Planning effort, please contact our consultant Stephanie Griffin of Freese and Nichols, Inc. at (817)735-7353 or by email at swg@freese.com. If you cannot attend the meeting but would like to provide input, please contact Stephanie by March 14. The Region C Water Planning Group appreciates your participation in the planning effort.

Sincerely,



James (Jim) M. Parks
Chair, Region C Water Planning Group

Cc: Russell Laughlin, RCWPG Secretary
Angela Masloff, Texas Water Development Board

c/o NTMWD
505 E. Brown Street
P. O. Box 2408
Wylie, Texas 75098-2408
972/442-5405
972/442-5405/Fax
jparks@ntmwd.com
www.regioncwater.org

REGION C WATER PLANNING GROUP

Senate Bill One Third Round of Regional Water Planning - Texas Water Development Board

Board Members

James M. Parks, Chair
Jody Puckett, Vice-Chair
Russell Laughlin, Secretary
Steve Berry
Jerry W. Chapman
Frank Crumb
Jerry Johnson
Bill Lewis
G. K. Maenius
Howard Martin
Jim McCarter
Dr. Paul Phillips
Irvin M. Rice
Robert O. Scott
Connie Standridge
Jack Stevens
Damy Vance
Mary E. Vogelsson
Tom Woodward

February 25, 2008

Dear Freestone County Water Provider:

The Region C Water Planning Group is currently working on its third round of regional water planning. The focus of the Region C work for 2007-08 is special studies. The intent of these special studies is to bring the recommended strategies in the *2006 Region C Water Plan* closer to fruition.

In 2007, the Region C Water Planning Group applied to the Texas Water Development Board (TWDB) for a number of special studies in the Region C area, including a Freestone County study. Due to budget constraints, the TWDB was unable to fund the full request. As a result, the Freestone County study was not funded. Region C was successful in obtaining funds to host a county-wide meeting in your county to discuss water planning issues.

The purpose of this county-wide meeting is to review the *2006 Region C Water Plan* for the county and obtain information on changed conditions in your area. Changed conditions might include:

- More rapid growth than projected in the 2006 Plan
- Slower growth than projected in the 2006 Plan
- Additional water management strategies that the area is considering
- Information on recommended strategies that are no longer being pursued.

The consultant team for the Region C Water Planning Group is hosting a meeting to discuss these topics in a group setting with cities and water suppliers in your county. This meeting is scheduled for Thursday, March 6, 2008, at 6 PM at the Freestone County Courthouse, Room 203, 118 East Commerce, Fairfield, Texas.

The Region C Water Planning Group invites you (or a representative from your staff) to attend and participate in this meeting. The information you provide at this meeting will help the Planning Group determine the need for additional county studies for the 2009-2011 planning period.

If you have any questions about this meeting or the Region C Water Planning effort, please contact our consultant Stephanie Griffin of Freese and Nichols, Inc. at (817)735-7353 or by email at swg@freese.com. If you cannot attend the meeting but would like to provide input, please contact Stephanie by March 14. The Region C Water Planning Group appreciates your participation in the planning effort.

Sincerely,



James (Jim) M. Parks
Chair, Region C Water Planning Group

Cc: Russell Laughlin, RCWPG Secretary
Angela Masloff, Texas Water Development Board

c/o NTMWD
505 E. Brown Street
P. O. Box 2408
Wylie, Texas 75098-2408
972/442-5405
972/442-5405/Fax
jparks@ntmwd.com
www.regioncwater.org

REGION C WATER PLANNING GROUP

Senate Bill One Third Round of Regional Water Planning - Texas Water Development Board

Board Members

James M. Parks, Chair
Jody Puckett, Vice-Chair
Russell Laughlin, Secretary
Steve Berry
Jerry W. Chapman
Frank Crumb
Jerry Johnson
Bill Lewis
G. K. Maenius
Howard Martin
Jim McCarter
Dr. Paul Phillips
Irvin M. Rice
Robert O. Scott
Connie Standridge
Jack Stevens
Danny Vance
Mary E. Vogelson
Tom Woodward

March 24, 2008

Dear Grayson County Water Provider:

The Region C Water Planning Group is currently working on its third round of regional water planning. The focus of the Region C work for 2007-08 is special studies. The intent of these special studies is to bring the recommended strategies in the *2006 Region C Water Plan* closer to fruition.

In 2007, the Region C Water Planning Group applied to the Texas Water Development Board (TWDB) for a number of special studies in the Region C area, including a Grayson County study. Due to budget constraints, the TWDB was unable to fund the full request. As a result, the Grayson County study was not funded. Region C was successful in obtaining funds to host a county-wide meeting in your county to discuss water planning issues.

The purpose of this county-wide meeting is to review the *2006 Region C Water Plan* for the county and obtain information on changed conditions in your area. Changed conditions might include:

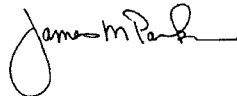
- More rapid growth than projected in the 2006 Plan
- Slower growth than projected in the 2006 Plan
- Additional water management strategies that the area is considering
- Information on recommended strategies that are no longer being pursued.

The consultant team for the Region C Water Planning Group is hosting a meeting to discuss these topics in a group setting with cities and water suppliers in your county. This meeting is scheduled for Wednesday, April 2, 2008 at 3:00 PM in the auditorium of the Center for Workplace Learning at Grayson County College, 6101 Grayson Drive, Denison, TX.

The Region C Water Planning Group invites you (or a representative from your staff) to attend and participate in this meeting. The information you provide at this meeting will help the Planning Group determine the need for additional county studies for the 2009-2011 planning period.

If you have any questions about this meeting or the Region C Water Planning effort, please contact our consultant Stephanie Griffin of Freese and Nichols, Inc. at (817)735-7353 or by email at swg@freese.com. If you cannot attend the meeting but would like to provide input, please contact Stephanie by April 7, 2008. The Region C Water Planning Group appreciates your participation in the planning effort.

Sincerely,



James (Jim) M. Parks
Chair, Region C Water Planning Group

Cc: Russell Laughlin, RCWPG Secretary
Angela Masloff, Texas Water Development Board

attachments

c/o NTMWD
505 E. Brown Street
P. O. Box 2408
Wylie, Texas 75098-2408
972/442-5405
972/442-5405/Fax
jparks@ntmwd.com
www.regioncwater.org

REGION C WATER PLANNING GROUP

Senate Bill One Third Round of Regional Water Planning - Texas Water Development Board

Board Members

James M. Parks, Chair
Jody Puckett, Vice-Chair
Russell Laughlin, Secretary
Steve Berry
Jerry W. Chapman
Frank Crumb
Jerry Johnson
Bill Lewis
G. K. Maenius
Howard Martin
Jim McCarter
Dr. Paul Phillips
Irvin M. Rice
Robert O. Scott
Connie Standridge
Jack Stevens
Damy Vance
Mary E. Vogelson
Tom Woodward

February 29, 2008

Dear Kaufman County Water Provider:

The Region C Water Planning Group is currently working on its third round of regional water planning. The focus of the Region C work for 2007-08 is special studies. The intent of these special studies is to bring the recommended strategies in the *2006 Region C Water Plan* closer to fruition.

In 2007, the Region C Water Planning Group applied to the Texas Water Development Board (TWDB) for a number of special studies in the Region C area, including a Kaufman County study. Due to budget constraints, the TWDB was unable to fund the full request. As a result, the Kaufman County study was not funded. Region C was successful in obtaining funds to host a county-wide meeting in your county to discuss water planning issues.

The purpose of this county-wide meeting is to review the *2006 Region C Water Plan* for the county and obtain information on changed conditions in your area. Changed conditions might include:

- More rapid growth than projected in the 2006 Plan
- Slower growth than projected in the 2006 Plan
- Additional water management strategies that the area is considering
- Information on recommended strategies that are no longer being pursued.

The consultant team for the Region C Water Planning Group is hosting two meetings to discuss these topics in a group setting with cities and water suppliers in your county. The meetings are scheduled for

- Friday, March 14, 2008 at 10 AM in the City of Terrell Council Chambers at 201 E. Nash St., Terrell, Texas
- Friday, March 14, 2008 at 2 PM in the City of Kaufman Fire Department Training Room at 301 S. Madison St., Kaufman, Texas

The Region C Water Planning Group invites you (or a representative from your staff) to attend and participate in either (or both) of these meetings. The same information will be presented at each meeting. The information you provide at these meetings will help the Planning Group determine the need for additional county studies for the 2009-2011 planning period.

If you have any questions about these meetings or the Region C Water Planning effort, please contact our consultant Stephanie Griffin of Freese and Nichols, Inc. at (817)735-7353 or by email at swg@freese.com. If you cannot attend one of the meetings but would like to provide input, please contact Stephanie by March 25, 2008. The Region C Water Planning Group appreciates your participation in the planning effort.

Sincerely,



James (Jim) M. Parks
Chair, Region C Water Planning Group

Cc: Russell Laughlin, RCWPG Secretary
Angela Masloff, Texas Water Development Board

c/o NTMWD
505 E. Brown Street
P. O. Box 2408
Wylie, Texas 75098-2408
972/442-5405
972/442-5405/Fax
jparks@ntmwd.com
www.regioncwater.org

REGION C WATER PLANNING GROUP

Senate Bill One Third Round of Regional Water Planning - Texas Water Development Board

Board Members

James M. Parks, Chair
Jody Puckett, Vice-Chair
Russell Laughlin, Secretary
Steve Berry
Jerry W. Chapman
Frank Crumb
Jerry Johnson
Bill Lewis
G. K. Maenius
Howard Martin
Jim McCarter
Dr. Paul Phillips
Irvin M. Rice
Robert O. Scott
Connie Standridge
Jack Stevens
Damy Vance
Mary E. Vogelsson
Tom Woodward

February 25, 2008

Dear Navarro County Water Supplier:

The Region C Water Planning Group is currently working on its third round of regional water planning. The focus of the Region C work for 2007-08 is special studies. The intent of these special studies is to bring the recommended strategies in the *2006 Region C Water Plan* closer to fruition.

In 2007, the Region C Water Planning Group applied to the Texas Water Development Board (TWDB) for a number of special studies in the Region C area, including a Navarro County study. Due to budget constraints, the TWDB was unable to fund the full request. As a result, the Navarro County study was not funded. Region C was successful in obtaining funds to host a county-wide meeting in your county to discuss water planning issues.

The purpose of this county-wide meeting is to review the *2006 Region C Water Plan* for the county and obtain information on changed conditions in your area. Changed conditions might include:

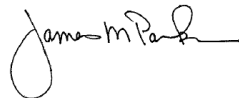
- More rapid growth than projected in the 2006 Plan
- Slower growth than projected in the 2006 Plan
- Additional water management strategies that the area is considering
- Information on recommended strategies that are no longer being pursued.

The consultant team for the Region C Water Planning Group is hosting a meeting to discuss these topics in a group setting with cities and water suppliers in your county. This meeting is scheduled for 2 PM on Thursday, March 6, 2008 at the Corsicana Government Center at 200 North 12th Street, Corsicana, TX 75110.

The Region C Water Planning Group invites you (or a representative from your staff) to attend and participate in this meeting. The information you provide at this meeting will help the Planning Group determine the need for additional county studies for the 2009-2011 planning period.

If you have any questions about this meeting or the Region C Water Planning effort, please contact our consultant Stephanie Griffin of Freese and Nichols, Inc. at (817)735-7353 or by email at swg@freese.com. If you cannot attend the meeting but would like to provide input, please contact Stephanie by March 14, 2008. The Region C Water Planning Group appreciates your participation in the planning effort.

Sincerely,



James (Jim) M. Parks
Chair, Region C Water Planning Group

Cc: Russell Laughlin, RCWPG Secretary
Angela Masloff, Texas Water Development Board

c/o NTMWD
505 E. Brown Street
P. O. Box 2408
Wylie, Texas 75098-2408
972/442-5405
972/442-5405/Fax
jparks@ntmwd.com
www.regioncwater.org

ATTACHMENT B
COUNTY-WIDE MEETING NOTES



MEMORANDUM

TO: Region C Water Planning Group

FROM: Stephanie Griffin

SUBJECT: Notes from Cooke County-Wide Meeting Held in Gainesville at 5:00 PM on March 24, 2008

DATE: March 30, 2008

The following people attended the Cooke-County Meeting:

Ronnie Young, Kiowa Homeowner WSC
Bill Freeman, Cooke County Judge
Al Smith, Cooke County Commissioner
Stan Endres, City of Muenster
Jerry Chapman, Greater Texoma Utility Authority
Ron Sellman, City of Gainesville
Barry Sullivan, City of Gainesville
John Minahan, Alan Plummer Associates, Inc. (APAI)
Stephanie Griffin of Freese and Nichols, Inc. (FNI)

I provided a presentation summarizing the population and demand projections, current supplies, and recommended water management strategies included in the 2006 Region C Water Plan for Cooke County. The following summarizes our discussion during the meeting.

The group suggested that Callisburg WSC, Mountain Springs WSC, and ERA Community WSC might qualify as water user groups. Callisburg WSC provides water to the northeast portion of the county, although the population in the City of Callisburg itself is fairly small. Mountain Springs WSC provides water to the southeast part of the county. ERA WSC has approximately 160 connections. Judge Freeman noted that four additional MUDs are trying to form in the county. They did not make it through the last legislative session.

Jerry Chapman noted that if any of the communities are planning to seek funding from the Texas Water Development Board for water supply projects, the projects must be included in the regional water plan.

Commissioner Smith noted that the development of the Barnett Shale has had a significant impact on groundwater supplies in the county. He asked if this was represented in the current plan. I responded that the water demand associated with the development of the Barnett Shale is considered "mining demand". I explained that the 2006 Plan did not include this demand because the development of the Barnett Shale was just getting started when we wrapped up the 2006 Plan. The

[NTD07286]T:\Study 4C - County-Wide Meetings\Cooke\Meeting notes -Cooke County 3-24-08.doc

mining demand associated with the Barnett Shale will be included in the 2011 Plan. At this time, we plan to use the demands that were developed in the 2007 update to the Trinity GAM to account for this water use.

In our discussion of current supplies and recommended water management strategies, we discussed the following updates:

- In addition to the current supplies shown, Gainesville also has a direct reuse project that irrigates two of its parks.
- Reuse for golf course irrigation should be added for Lindsay and Kiowa Homeowners WSC. The group agreed that anyone adding new golf courses should have reuse as a water management strategy.
- One of the strategies for Valley View is to purchase water from Bolivar WSC. The question was raised as to whether or not this is a realistic strategy. Bolivar WSC needs more water than it currently has.
- Bolivar WSC has recently approached Gainesville for water.
- A question was also raised about the allocation of Lake Texoma water to communities in Cooke County. We need to review this strategy for the 2011 Plan.

A question was raised about the Oklahoma water. Jerry responded that this strategy is in the Region C Water Plan. He noted that the Tarrant Regional Water District is currently suing the State of Oklahoma regarding the moratorium on selling water out-of-state. I added that the results of this case could have a significant impact on the future water supplies for North Texas.

Jerry Chapman then led a discussion on the status of the TCEQ-required groundwater conservation district in the area. It was noted that Cooke County overlies the outcrop of the Trinity aquifer. It was also noted that the creation of such a district would not be funded by an ad valorem tax in Cooke County because the voters would not support such a tax. The TCEQ hearing is scheduled for May 12 in Austin.

Follow-Up Activities for Stephanie: (Responses provided in *italics*.)

- Check on average day supplies provided by Callisburg WSC, Mountain Springs, and ERA WSC. Should they be included as WUGs in the 2011 Plan? *The following information is based on the TCEQ Utility database. Callisburg WSC supplies an average day demand of 0.177 MGD and 550 meters. Mountain Springs WSC currently has an average day demand of 0.279 MGD with 815 connections. ERA WSC has a current average day demand of 0.018 MGD with 134 connections. Mountain Springs WSC should be included as a WUG in the 2011 Plan. The growth in the Callisburg WSC should be monitored over time as it will likely meet the TWDB definition of a WUG in the near future.*



MEMORANDUM

TO: File

FROM: Tom Gooch, P.E.

SUBJECT: Notes on Region C Fannin County Presentation at the Fannin County Water Supply Agency Meeting Held at 4 PM in Bonham on February 28, 2008

DATE: February 29, 2008

Those in attendance:

Ronnie Ford, Chairman of Agency (City of Bonham)
Mark Newhouse, Agency Member (Bois d' Arc Creek MUD)
Kent Smith, Agency Member (Gober MUD)
John Keen, Agency Member (Southwest Fannin County SUD)
David Nolen, Agency Member (City of Leonard)
Harold Latham, Agency Member (Fannin County)
Millard Brent, Agency Member (Dodd City)
Jim Boreham, Agency Member (Lannius WSC)
Charles Avalon, Candidate for County Judge
Pat Hilliard, Fannin County Commissioner
Roselle Fowler, Reporter
Two members of general public
Jerry Chapman, GTUA
John Mihahan, APAI
Tom Gooch, FNI
Stephanie Griffin, FNI

1. The Authority conducted general business.
2. Stephanie Griffin made a presentation on Region C Planning.
3. Questions:

Commissioner Hilliard: Isn't most of Ralph Hall Lake going out of the county? *Yes, that's what we planned in the 2006 Region C report. Jerry Chapman pointed out that projects in the plan will be built only if they can be permitted.*

Mark Newhouse: Have you all changed your thinking since you first started: Are population projections going up? *The projections for Fannin County went up between Phase 1 and Phase 2.*

Agency member: I don't believe we are overdrafting the aquifer. *The yield is based on Groundwater Availability Models (GAMs). The planning group does not enforce the plan.*

Commissioner Hilliard: The plan doesn't account for smaller WSCs. *The TWDB defined 0.25 mgd average day supplier to be a water user group in the plan.*

Ronnie Ford: Plan depends on Lower Bois d'Arc Creek Reservoir.

Agency Member: I doubt the population growth figures for the county. I think the growth will be slower. We haven't gotten back to 1910 population. *We will be looking at population but may not make significant changes.*

Agency Member: What about water from Oklahoma? *There is some Oklahoma water in the plan. However, we had a smaller amount of water and a later date than the water providers are currently pursuing.*

4. Jerry Chapman made a presentation on groundwater and groundwater districts.



MEMORANDUM

TO: Region C Water Planning Group

FROM: Stephanie Griffin

SUBJECT: Notes from Freestone County-Wide Meeting Held in Fairfield at 6:00 PM on March 6, 2008

DATE: March 12, 2008

The following people attended the meeting:

Connie Standridge, Region C Water Planning Group
Robert Gresham, Mid-East Texas Groundwater Conservation District
Jim Wits, Flo Community WSC
Stephanie Griffin of Freese and Nichols, Inc. (FNI)

I provided a presentation summarizing the population and demand projections, current supplies, and recommended water management strategies included in the 2006 Region C Water Plan for Freestone County. The following summarizes our discussion during the meeting.

Jim told us that FLO WSC has approximately 1,450 connections; approximately 100 of those are in Freestone County.

A question was raised as to how the water demand of livestock was determined. I explained that the Texas Water Development Board developed the livestock demands using headcounts of various kinds of animals and the water needs per animal to develop a demand. Connie told us that the Texas Department of Agriculture takes a livestock census every year and asked if this information is being considered in the demands. I will look into this.

The City of Teague does not use water from Teague City Lake (zero firm yield based on WAM) and has no water treatment plant facilities. Teague relies solely on the Carrizo-Wilcox aquifer.

Jim is the former Public Works Director for the City of Wortham. He shared his knowledge on the water supply for Wortham. The City does not use water out of Lake Wortham anymore. Lake Wortham Dam was damaged by the floods last year. The City has not repaired the dam and has since received a letter from TCEQ to remove the dam and let the water flow downstream. Wortham purchases water from the City of Mexia, but not out of Lake Mexia. The City of Mexia is purchasing groundwater from Bistone Municipal Water Supply District (Limestone County) and then selling the groundwater to Wortham. Mexia could get water out of Lake Mexia in an emergency, but the City does not have the ability to treat the surface water. The strategy in the 2006 Plan showing water treatment plant expansions for the City of Wortham should be removed.

Fairfield has exhibited interest in becoming a regional water provider by selling water out of

[NTD07286]T:\Study 4C - County-Wide Meetings\Freestone\Meeting notes - Freestone County 3-6-08.doc

Richland-Chambers Reservoir to the neighboring communities in Freestone County. Fairfield has a contract with Tarrant Regional Water District for 6 MGD, most of which is being sold for steam electric purposes. Fairfield has approximately 1.5 MGD available to use at this time. The neighboring communities have encouraged Fairfield to secure additional water from Tarrant Regional Water District. At that time, the neighboring communities may be more interested in contributing funds to develop the pipelines. Fairfield has stated that their wells will likely dry up by 2025.

Flo Community WSC obtains all of its water from well fields in Leon County. No changes need to be made to the Region C portion of Flo Community WSC.

I told Robert that if the groundwater conservation district could send Region C the managed available groundwater before December 2008, that we could include this information in the 2011 Region C Water Plan.

Follow-Up Activities for Stephanie: (Responses are in *italics*.)

- Follow-up with the TWDB regarding the livestock demands. Are the annual Texas Department of Agriculture livestock counts used to update these demands? *Yes, the TWDB uses the annual livestock census from the Texas Agricultural Statistics Service to develop its baseline numbers. The projection rate was based on this information.*
- Review the current supply shown from Lake Livingston to Freestone County. Who is using this supply? *This supply is used by the steam-electric generators.*
- Call Fairfield and discuss the city's plans for future water supply. Mayor Roy Hill (903) 389-2633. *I left a message with Mayor Hill's office, but he did not return my phone call.*
- Should South Freestone WSC be considered a water user group in the 2011 Plan? *South Freestone WSC has 1,085 connections with a residential population of 3,255 according to the TCEQ Utility Database. The average day demand is 0.239 MGD. The TWDB definition for a water user group includes cities with populations greater than 500 and water providers with average day demands of 0.25 MGD. We should consider adding South Freestone County as a water user group in the 2011 Plan, instead of keeping it lumped in County-Other.*



MEMORANDUM

TO: Region C Water Planning Group

FROM: Stephanie Griffin

SUBJECT: Notes from Grayson County-Wide Meeting Held at Grayson County College in Denison at 3:00 PM on April 2, 2008

DATE: April 22, 2008

Approximately forty people attended this meeting. The list of attendees who signed-in is on-file at Freese and Nichols, Inc. (FNI). The following Region C representatives attended the meeting:

Jerry Chapman, Greater Texoma Utility Authority
Stephanie Griffin, FNI
Tom Gooch, FNI
John Minahan, Alan Plummer Associates, Inc. (APAI)

I presented the attached summary of projected growth and recommended water management strategies from the *2006 Region C Water Plan*. The following summarizes the discussion.

What is temporary overdrafting of the aquifer? I explained that temporary overdrafting is a strategy to allow entities to use more groundwater than what is considered reliably available according to the groundwater availability model (GAM). This strategy is included in the plan for the year 2010 to allow entities time to connect to surface water options. The assumption used by the Region C Water Planning Group (RCWPG) in the GAM assumes minimal drawdown of the aquifer over the next 50 years.

What is the status of the Oklahoma water? I responded that Oklahoma water is included in the 2006 Plan as a recommended strategy for Region C. The supply is assumed to be in place by 2050. The outcome of the legal action being pursued by the Tarrant Regional Water District could change the timing and amounts of water that might be available to North Texas in the future.

Jerry Chapman encouraged the group to keep the RCWPG informed of their future water management strategies. The RCWPG wants the regional plan to match the local plans. If a project is not included in the regional plan that an entity is pursuing, this could cause a problem for the entity in obtaining funding and/or permitting. The TWDB has funds available for water projects. Jerry gave the example of the amendment made to the 2001 Plan to allow Anna to drill another groundwater well. Tom added that to combat this problem, the RCWPG included strategies to supplement and replace wells over time for those entities currently relying on groundwater. How the strategy might be interpreted by the regulatory agencies is uncertain.

[NTD07286]T:\Study 4C - County-Wide Meetings\Grayson\Meeting notes -Grayson County 4-2-08.doc

Mayor Bill Magers of Sherman asked what is driving the temporary overdrafting strategy. He asked if the regional water plan was working against the area. Jerry responded that the population growth in North Texas combined with the critical groundwater supply issue has driven the TCEQ decision that a groundwater conservation district is needed in the area. Tom added that the water level in the aquifer could be lowered to make additional groundwater supply available. However, the Planning Group chose to maintain the aquifer level to avoid mining the aquifer. According to the GAM, the total groundwater supply available on a long-term basis is less than what is currently being pumped. Thus, the available water supply was distributed to all groundwater users at a smaller percentage than what they could pump at that time. Tom also commented that TCEQ incorrectly interpreted the strategy in the draft Priority Groundwater Management Area (PGMA) report. FNI provided comments regarding the incorrect interpretation of this strategy. Whether or not TCEQ corrected that information in the final report, we have not double checked.

Mayor Magers noted that Sherman is a large groundwater user in the county. He told the group that the City is converting from groundwater to surface water. Does the temporary overdrafting strategy really apply to Sherman? Tom replied that the current demands exceed the reliable long-term groundwater supply in Grayson County as determined by the GAM. Thus, the amount of groundwater allocated to each entity using groundwater was decreased by the same percentage such that the total groundwater supply was not exceeded. The “temporary overdraft” measure was added in 2010 to allow entities time to connect to surface water sources. He noted that the other option would have been to show a shortage for those entities currently relying completely on groundwater.

Jerry commented on the rule of capture, using the Ozarka case as an example. The court upheld the rule of capture but warned the State that it might not do so next time and that the allocation of groundwater supplies needed to be addressed. The State has addressed this ruling by developing groundwater conservation districts.

Another city representative commented that he is concerned that the State will prohibit the use of groundwater in the future.

Starr WSC asked if “Grayson County-Other” also had new wells as a strategy. Starr WSC plans to pursue TWDB funding for an additional well. Yes, new wells should be covered for all entities included as Grayson County-Other in the Region C Plan.

What strategies are included in the water conservation used in the Region C Plan? I responded that two conservation packages were developed – basic and expanded. Each municipal water user group was assumed to institute the “basic package”. This package includes reduced water use based on the increasing costs to treat and distribute the water, public education, and the Federal clothes washer standards that only allow water-efficient washing machines to be sold now. Jerry added that the Water Conservation Advisory Council is reviewing water conservation strategies. This group will likely increase its focus on reviewing the conservation measures that are included in your water conservation and drought contingency plans. Conservation and reuse are an important part of the Region C Plan.

Jerry then led a discussion on the status of the groundwater conservation district being required by TCEQ. The contested case will be heard on May 12 in Austin.



MEMORANDUM

TO: Region C Water Planning Group

FROM: Stephanie Griffin

SUBJECT: Notes from Kaufman County-Wide Meetings Held in Terrell at 10:00 AM and Kaufman at 2:00 PM on March 14, 2008

DATE: April 9, 2008

Sonny Groessel with the City of Terrell attended the meeting held at 10 AM in Terrell. We discussed the growth in the City of Terrell. The current population is estimated to be approximately 18,000. Thus, Terrell is growing faster than the Region C projections. Terrell has several developers planning residential housing in the near future. These areas are outside the current city limits but within the City's ETJ. At some point in the future, these developments will be within the city limits. Terrell has a number of commercial and industrial developments that are developing or plan to develop facilities within the city. Terrell is interested in developing a reuse supply. The City currently owns and operates its own wastewater treatment plant.

The following people attended the meeting in Kaufman:

Curtis Snow, City of Kaufman
Tim Abbott, City of Mesquite
Jeff Armstrong, City of Mesquite
Stephanie Griffin of Freese and Nichols, Inc. (FNI)

I provided a presentation summarizing the population and demand projections, current supplies, and recommended water management strategies included in the 2006 Region C Water Plan for Kaufman County. The following summarizes our discussion during the meeting.

Mesquite sells wholesale water to the Heartland Subdivision. The subdivision is approximately 30 percent built out. In the future, Mesquite will likely provide wholesale water to Markout WSC who will in turn sell to Heartland.

As for population projections, Curtis noted that the total county projections appear to be low. They may be ok for the City of Kaufman, but Crandall and Terrell are experiencing significant growth. I responded that the population and demand projections will be reviewed for the 2011 Plan and that the Planning Group would be sending a survey about a year from now to get local input on the projections.

Curtis questioned the impact of reuse on downstream users. I tried to explain that the permitting process considers the potential impact on downstream users. Imported water from other basins is

Notes from Kaufman County-Wide Meetings Held in Terrell at 10:00 AM and Kaufman at 2:00 PM on March 14, 2008

April 9, 2008

Page 2 of 2

water that would not have naturally been in the area and would not have an impact on downstream users in the basin of use.

Following this meeting, I corresponded with Vickie Armstrong of Rose Hill Special Utility District (SUD) by email. Kaufman County is experiencing tremendous growth at this time. A number of entities that were not included as water user groups (WUG) in the 2006 Plan now meet the TWDB definition and need to be added as individual WUGs in the 2011 Plan, including:

- Talty WSC (TCEQ shows an average day demand of 0.900 MGD)
- Forney Lake WSC (TCEQ shows an average day demand of 0.726 MGD)
- Rose Hill SUD (TCEQ shows an average day demand of 0.317 MGD)

In addition, the following entities are growing but do not quite meet the TWDB definition to be stand-alone WUGs:

- Poetry WSC (TCEQ shows an average day demand of 0.202 MGD)
- Becker-Jiba WSC (TCEQ shows an average day demand of 0.200 MGD)
- Markout WSC (TCEQ shows an average day demand of 0.197 MGD)
- Elmo WSC (TCEQ shows an average day demand of 0.131 MGD)
- North Kaufman WSC (TCEQ shows an average day demand of 0.131 MGD)
- Lawrence WSC (TCEQ shows an average day demand of 0.054 MGD)

Ms. Armstrong also inquired about including the City of Elmo as a stand-alone WUG. I have not been able to find a population estimate for Elmo in the recent population estimates prepared by the NCTCOG, State Demographer, or Census.

Follow-Up Activities for Stephanie: (Responses provided in *italics*.)

- Send Sonny the TWDB population estimates. *Done.*
- Add the SRA water to the NTMWD future supply slide. *Done.*



MEMORANDUM

TO: Region C Water Planning Group

FROM: Stephanie Griffin

SUBJECT: Notes from Navarro County-Wide Meeting Held in Corsicana at 2:00 PM on March 6, 2008

DATE: March 13, 2008

The following people attended the meeting:

Connie Standridge, City of Corsicana and Region C Water Planning Group
Jim McCarter, Region C Water Planning Group
Dennis Donoho, MEN WSC and Alternate to Region C Water Planning Group
Stephanie Griffin of Freese and Nichols, Inc. (FNI)

I provided a presentation summarizing the population and demand projections, current supplies, and recommended water management strategies included in the 2006 Region C Water Plan for Navarro County. The following summarizes our discussion during the meeting.

Corsicana makes up about half of the population of Navarro County. We reviewed the recent Texas Water Development Board figure comparing the Region C projected population growth through 2010 to the State Demographer estimates through 2007. Connie believes the Region C projections are more in line with what the county is experiencing in terms of population. The reason for the dip in 2004 in the State Demographer estimates is unknown. The current NCTCOG population estimate is approximately 50,200 for the county. Connie thinks that the Region C population projections are still appropriate for the county. I told the group that Region C would be sending a survey seeking input on population and demand projections for the 2011 Plan.

Jim noted that there has been a lot of activity in terms of rebuilding stock ponds in the area, as well as the construction of new stock ponds.

Corbett WSC may be a water user group now.

Updates for Corsicana: The timing of the connection to Richland-Chambers Reservoir has been changed. The 2006 Plan shows this connection coming online in 2050. Corsicana currently has the pipeline under construction. The pipeline should be completed by the end of 2009. The pipeline is sized to carry the full 13,650 AF/Y that Corsicana has in water rights. The pipeline will connect to Lake Halbert. A new 12 MGD water treatment plant is being designed to treat this supply at the existing Lake Halbert Water Treatment Plant site.

Connie provided a copy of the current wholesale customers for the City of Corsicana.

[NTD07286]T:\Study 4C - County-Wide Meetings\Navarro\Meeting notes - Navarro County 3-6-08.doc

Connie noted that the demand growth in the county has been approximately 1 MGD every 10 years. Dennis said that MEN WSC has seen about a 7 to 8 percent increase in meters every year for the last several years. Approximately 1/3 of the MEN WSC service area consists of seasonal residents.

Dennis asked if Navarro County was considering the development of a groundwater conservation district. I didn't recall Navarro County being in the recent PGMA report. I will look at that again. Connie said that typically the county puts together a groundwater district. The issue has not been discussed recently. Dennis commented that he would like to see Navarro County develop its own groundwater conservation district, if one is created. I commented that the Legislature prefers multi-county groundwater conservation districts be established these days.

Follow-Up Activities for Stephanie: (Responses are in *italics*.)

- Check on the status of the proposed Heart's Bluff Mitigation Bank. *I spoke with Wayne Lea of the Corps of Engineers on March 13 regarding the status of the Heart's Bluff Mitigation Bank application. Mr. Lea informed me that the application had been denied a while back on the basis that it was in the footprint of the proposed Marvin Nichols Reservoir, which is included in the State Water Plan. Mr. Lea noted that if the proposed reservoir is ever removed from the State Water Plan then the application could be resubmitted for consideration at that time.*
- Let attendees know who has the run-of-the-river rights in the county. *Kerens has run-of-the-river water rights for 252 acre-feet per year out of the Trinity River.*
- Look up the CCN map and see where the boundaries of Brandon-Irene WSC fall. Let Jim know. *Brandon-Irene WSC has CCN 10745. I have attached copy of the CCN map highlighting the small area of Brandon-Irene WSC's CCN in Navarro County. This is very small. We should reevaluate the entity's population and demand projections that are assumed to be in Ellis, Hill, and Navarro counties. While not a lot of the entity's demand is in Region C, my initial thought is that the amount in Navarro County might need to be a little less and be more along the lines of what is assumed to be in Ellis County.*
- Find out if Corbett WSC should be included as a WUG in the 2011 Plan. *According to TCEQ, Corbet WSC has 913 meters, and a residential population of 2,739. The TCEQ Utility Database shows that Corbet WSC currently has an average day demand of 0.137 MGD. The TWDB definition for a water user group includes cities with populations greater than 500 and water providers with average day demands of 0.25 MGD. For now, it appears that Corbet WSC will remain part of Navarro County-Other.*
- Check the TCEQ PGMA report. Was Navarro Count included? Let Dennis know. *The June 2007 TCEQ Updated Evaluation for the North-Central Texas – Trinity and Woodbine Aquifers – Priority Groundwater Management Study Area included Navarro County. The report concluded that the creation of one or more groundwater conservation districts “may be warranted in the future if groundwater usage practices and trends drastically exceed what is projected in the 2006 regional water plans” for Delta, Hunt, Kaufman, Lamar,*

Navarro, Red River, and Rockwall counties. The report stated that these counties are not projected to have critical groundwater problems within the next 25 years.

- Correct the Excel file showing Richland-Chambers as the future supply. It is currently mislabeled as Tarrant Regional water. Send to Connie. *This has been corrected.*

ATTACHMENT C
TWDB COMMENTS AND REGION C RESPONSE TO COMMENTS

Attachment C
TWDB Comments and Region C Response to Comments

The Region C Water Planning Group submitted the September 22, 2008, Draft Memorandum Summary of County-Wide Meetings (Cooke, Fannin, Freestone, Grayson, Kaufman and Navarro) to the Texas Water Development Board (TWDB) for review and comment. On December 10, 2008, the TWDB provided written comments on the Draft Memorandum stating that the TWDB did not have any comments. The Region C Water Planning Group did not make any changes, except to finalize the document.