City of Garden Ridge

9400 Municipal Parkway
Garden Ridge, Texas 78266
(210) 651-6632
Fax: (210) 651-9638

AGENDA
REGULAR CITY WATER COMMISSION MEETING

Tuesday, September 25, 2012 at 6:00 P.M.

The Garden Ridge City Water Commission will meet in regular session on Tuesday, September 25, 2012 at 6:00 p.m. in the Administration Conference Room, City Hall, 9400 Municipal Parkway, Garden Ridge, Texas. This meeting is open meeting, open to the public, subject to the Open Meetings Law of the State of Texas, and as required by law, notice is hereby posted on Friday, September 21, 2012 before 5:00 p.m., providing time, place, date and agenda thereof. The meeting facility is wheelchair accessible and accessible parking spaces are available. Requests for accommodations or interpretive services must be made 48 hours in advance of this meeting.

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1. Call to Order
2. Roll Call
3. Citizen's Participation – 3 minute limit per citizen

   Rules for Citizen's Participation:

   The Water Commission welcomes citizen participation and comments at all of their Commission Meetings. As a courtesy to your fellow citizens and out of respect to our appointed officials, we must request that if you wish to speak, that you follow these guidelines.

   a. Direct your comments to the entire Commission, not to an individual member, nor to the audience.
   b. Show the Water Commission the same respect and courtesy that you expect to be shown to you.
   c. Limit remarks to three (3) minutes.

   NOTE: The Texas Open Meetings Act permits a member of the public or a member of the governmental body to raise a subject that has not been included in the notice for the meeting. However, any discussion of the subject ***must be limited*** *to a proposal to place the subject on the agenda for a future meeting and any response to a question posed to the Commission is limited to either a statement of specific factual information or a recitation of existing policy.* TEX. GOV'T CODE § 551.042.

4. Approval of Minutes
   a) July 30, 2012 Regular Water Commission Meeting
5. Business Items

   The City Water Commission may discuss, consider and/or take possible action on recommendation to the City Council on the following:

   a) Request by Stan Cobb, 22117 Senna Hills Dr., for variance to water restrictions for watering of new/replacement landscaping

b) Review and possible action on amendments to Ordinance 61 concerning implementation of drought management stages and restrictions on water usage during drought management stages

c) Discussion on developing and implementing commercial water rates

d) Discuss concept of transfer of 2.139 acre feet of Edwards water rights from Forest Waters Club to City of Garden Ridge

e) Appointment of Patricia Ramirez as Water Commissioner, Place 3 for a two year term of office expiring September 30, 2014

6. Update on actions taken by the City Council in previous City Council Meetings
7. Water Manager Monthly Activity Report
   a) Water pumping/usage from city wells
   b) Water system infrastructure maintenance, repairs and/or projects
   c) Static levels, drawdown levels and flow rates on the Trinity Well
   d) Water and/or Drought Management
8. Adjourn

AGENDA NOTICES:

Decorum Required:

Any disruptive behavior, including shouting or derogatory statements or comments may be ruled out of order by the Presiding Officer. Continuation of this type of behavior could result in a request by the Presiding Officer that the individual leave the meeting, and if refused, an order of removal.

Action by Commission Authorized:

The Commission may vote and/or act upon any item within this Agenda. The Commission reserves the right to retire into executive session concerning any of the items listed on this Agenda, pursuant to and in accordance with Texas Government Code Section 551.071, to seek the advice of its attorney about pending or contemplated litigation, settlement offer or on a matter in which the duty of the attorney to the governmental body under the Texas Disciplinary Rules of Professional Conduct of the State Bar of Texas conflict with the Open Meetings Act and may invoke this right where the City Attorney, the Mayor or a majority of the Governing Body deems an executive session is necessary to allow privileged consultation between the City Attorney and the governing body, if considered necessary and legally justified under the Open Meetings Act. The City Attorney may appear in person, or appear in executive session by conference call in accordance with applicable state law.

Executive Sessions Authorized:

This agenda has been reviewed and approved by the City's legal counsel and the presence of any subject in any Executive Session portion of the agenda constitutes a written interpretation of Texas Government Code Chapter 551 by legal counsel for the governmental body and constitutes an opinion by the attorney that the items discussed therein may be legally discussed in the closed portion of the meeting considering available opinions of a court of record and opinions of the Texas Attorney General known to the attorney. This provision has been added to this agenda with the intent to meet

all elements necessary to satisfy Texas Government Code Chapter 551.144(c) and the meeting is conducted by all participants in reliance on this opinion.

Attendance By Other Elected or Appointed Officials:

It is anticipated that members of other city board, commissions and/or committees may attend the meeting in numbers that may constitute a quorum of the other city boards, commissions and/or committees. Notice is hereby given that the meeting, to the extent required by law, is also noticed as a meeting of the other boards, commissions and/or committees of the City, whose members may be in attendance. The members of the boards, commissions and/or committees may participate in discussions on the same items listed on the agenda, which occur at the meeting, but no action will be taken by such in attendance unless such item and action is specifically provided for on an agenda for that board, commission or committee subject to the Texas Open Meetings Act.

Shelley Goodwin
City Secretary

This is to certify that I, Shelley Goodwin, posted this Agenda at 3:00 p.m. on September 21, 2012 on the bulletin board located at the entrance to the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas.

Shelley Goodwin
City Secretary

City of Garden Ridge

9400 Municipal Parkway
Garden Ridge, Texas 78266-2600
(210) 651-6632
Fax (210) 651-9638

CITY OF GARDEN RIDGE WATER COMMISSION MEETING
MINUTES
Monday, July 30, 2012 at 6:00 P.M.

The City of Garden Ridge Water Commission met in regular session on Monday, July 30, 2012 at 6:00 p.m. in the City Council Chambers, City Hall, 9400 Municipal Parkway, Garden Ridge, Texas. This meeting was an open meeting, open to the public, subject to the Open Meetings Law of the State of Texas, and as required by law, notice was hereby posted on Friday, July 27, 2012 before 5:00 p.m., providing time, place, date and agenda thereof. The meeting facility is wheelchair accessible and accessible parking spaces are available. Requests for accommodations or interpretive services must be made 48 hours in advance of this meeting.

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1. Call to Order:

The meeting was called to order at 6:10 P.M. in the Council Chambers by Chairman Bower.

2. Roll Call:

Present: Commissioner Bower
Commissioner Stegman
Commissioner Heier
Commissioner Holloway
Commissioner Powers

Absent: Commissioner Zugay

Also in attendance were: Mayor Jay F. Feibelman, City Administrator Nancy Cain, Public Works Director Royce Goddard and Administrative Assistant Sandy Edwards.

3. Citizen Comments:

None.

4. Approval of Minutes:

a) June 26, 2012 Regular Water Commission Meeting

Motion was made by Commissioner Heier and seconded by Commissioner Powers to approve the minutes of June 26, 2012 Regular Water Commission Meeting. The motion passed unanimously.

b) July 5, 2012 Water Commission Subcommittee Meeting

Motion was made by Commissioner Holloway and seconded by Commissioner Stegman to approve the minutes of July 5, 2012 Water Commission Subcommittee Meeting, with the correction of the year 2012, not 2011. The motion passed unanimously.

c) July 10, 2012 Water Commission Subcommittee Meeting

Motion was made by Commissioner Holloway and seconded by Commissioner Heier to approve the minutes of July 10, 2012 Water Commission Subcommittee Meeting, with the correction of the year 2012, not 2011. The motion passed unanimously.

5. Business Items:

The City Water Commission may discuss, consider and/or take possible action on recommendation to the City Council on the following:

a) Report from and possible action on findings of the Water Commission Subcommittee concerning commercial water usage.

Commissioner Heier reported that the Subcommittee, consisting of himself, Commissioner Stegman and Commissioner Holloway met on two (2) separate dates. On July 5th, discussion was held regarding the difference between the water rates of residential and commercial users. It was determined after a lengthy discussion that further research needed to be done between the Commissioners and that another meeting would need to be held.

On July 10th, the Subcommittee met again and clarified the commercial water usage data they obtained. Commissioner Stegman presented a spreadsheet he created outlining a historical average of water usage in thousands of gallons for commercial accounts between 2004 to July 2012. Commissioner Heier reported on his conversation with the Nadine Knaus, Chairperson of the City of Garden Ridge Planning & Zoning Commission regarding the level of detail that the developers are required to bring to their committee before they can approve a plan, due to clarification that was needed by the Subcommittee. Commissioner Holloway was to gather some information from the City, specifically the water usage of Capparelli's. He also spoke to San Antonio Water Systems (SAWS) about Commercial water usage. The subcommittee results found that the residential and commercial usage were almost identical.

After further discussion it was determined by the Subcommittee that it was not necessary for the City to have a different water rate for both Commercial and Residential. They also noted that when looking at the different municipalities; Boerne, Schertz, and Cibolo, there were many different types of variables, based on the size of pipes used, meter size, different rates for higher consumption and even individual meters for irrigation systems verses domestic systems.

The Subcommittee decided to base their recommendation of the amount of water a developer would bring in for commercial usage based on the amount of acreage to be developed, charged at the same rate of .81 acre feet per acre, not hookup.

Commissioner Stegman concluded the discussion explaining the revised spreadsheet that he had handed out to the Commissioners for their review. There was no other action to be taken on this topic.

b) Request by Tony Overman to City Water Commission to define the ample water supply necessary to be brought in and transferred to the City of Garden Ridge in accordance with the Transferable Water Rights – Requirement of Ordinance 7-02011 for a commercial development at the northeast corner of the intersection of FM 2252 and FM 3009.

Christian Herzig from Ford Engineering, Inc. came before the Water Commission, representing Mr. Tony Overman, who was unable to attend the meeting. Chairman Bower began with a question from the handout received from Mr. Herzig (attached herewith). He asked what the number of acres were in the proposed development, with Mr. Herzig's reply of 13.532 acres.

Discussion continued with several comments and questions from the Commissioners to Mr. Herzig from the use of landscaping to the type of businesses proposed for the development. Commissioner Stegman also explained from his spreadsheet what is currently being used commercially and what is proposed regarding future businesses.

Motion was made by Commissioner Heier and seconded by Commissioner Holloway to recommend to City Council the use of the Subcommittee's estimate to determine the amount of acre feet of water a developer should bring to the City based on .81 acre feet per acre developed. Both Commissioner Stegman and Powers voted "Nay" to the motion made. Chairman Bower voted for the motion, to break the tie. Motion carried. The recommendation will be presented to City Council on August 1, 2012.

Chairman Bower thanked Christian Herzig for his time and presentation to the Water Commission.

c) Adoption of a policy concerning variance requests to the Demand Reduction Measures during Drought Management Stages.

A brief discussion regarding the adoption of a policy concerning variance requests to the Demand Reduction Measures during Drought Management Stages were discussed from a handout given to the Commissioners for their review (attached herewith). A correction was requested to the word "drought", by adding the "t".

Motion was made by Commissioner Holloway and seconded by Commissioner Heier to accept and recommend to City Council the adoption of a policy concerning variance requests to the Demand Reduction Measures during Drought Management Stages. The motion passed unanimously. The recommendation will be presented to City Council on August 1, 2012.

d) Resignation of Tony Zugay as Water Commissioner, Place 3 effective with expiration of term of office of September 30, 2012.

Commissioner Tony Zugay, Place 3 on the Water Commission, who was not present for the meeting, submitted his letter of resignation effective July 12, 2012. It was read and briefly discussed by the Water Commission.

Motion was made by Commissioner Heier and seconded by Commissioner Holloway to accept and recommend to City Council the resignation of Tony Zugay as Water Commissioner, Place 3, effective July 12, 2012. The motion passed unanimously. The recommendation will be presented to City Council on August 1, 2012.

e) Resignation of Gary Stegman as Water Commissioner, Place 4 effective with expiration of term of office of September 30, 2012.

Commissioner Gary Stegman, Place 4 on the Water Commission, submitted his letter of resignation effective with expiration of term of office of September 30, 2012. Chairman Bower thanked Commissioner Stegman for all his years of service to the Water Commission.

Motion was made by Commissioner Heier and seconded by Commissioner Holloway to accept and recommend to City Council the resignation of Gary Stegman as Water Commissioner, Place 4 effective with expiration of term of office of September 30, 2012. The motion passed unanimously. The recommendation will be presented to City Council on August 1, 2012.

f) Review of resumes/bios and possible discussion with citizens interested in serving as Water Commissioners.

City Administrator Nancy Cain stated that she left messages and contacted several citizens who had submitted resumes regarding the interest of serving on the Water Commission. From her contacts, Patricia A. Ramirez, 8827 Cherokee Path, was the only person present at the Water Commission meeting.

Chairman Bower invited Ms. Ramirez to come up before the Water Commission. She briefly spoke of her knowledge and accomplishments towards serving on the Water Commission. Chairman Bower thanked her for attending the meeting and for her interest in the community.

Commissioner Holloway reported that he knew Raymond E. Pitzen, 19534 Creekview Oaks, who also submitted his resume to the Water Commission, from his volunteer services with the Lions Club.

g) Appointment of Water Commissioner to fill unexpired term of office in Place 3 with term expiring September 30, 2012.

Discussion was held and a motion was made by Commissioner Holloway and seconded by Commissioner Heier to accept and recommend to City Council, the appointment of Patricia A. Ramirez, 8827 Cherokee Path, to fill the unexpired term of Water Commissioner, Place 3, with a term expiring September 30, 2012. The motion passed unanimously. The recommendation will be presented to City Council on August 1, 2012.

h) Appointment of Water Commissioner to Place 4 effective September 30, 2012 for a two year term of office.

Discussion was held and a motion was made by Commissioner Holloway and second by Commissioner Heier to accept and recommend to City Council, the appointment of Raymond E. Pitzen, 19534 Creekview Oaks, to Water Commissioner, Place 4, effective September 30, 2012 for a two year term of office. The motion passed unanimously. The recommendation will be presented to City Council on August 1, 2012.

6. <u>Update on actions taken by the City Council in previous City Council Meetings:</u>

City Administrator Nancy Cain updated on the relocation of 12 foot water line beginning at the FM 3009/FM 2252 intersection and moving in a westerly direction along the north side of FM 3009 and in a southerly direction along the west side of FM 2252. She also updated on the 2010 Water Master Plan

for the City of Garden Ridge and as it relates to storm water drainage through the Hickory Bend drainage easement and the Arrowood Subdivision.

City Administrator Cain stated that City Council approved the City Water Commission's recommendation on adoption of a policy concerning the leasing of water held by the City of Garden Ridge.

7. Water Manager Monthly Activity Report:

a) Water pumping/usage from city wells.

City Administrator Nancy Cain reviewed the monthly water pumping/usage from the city wells and discussed the water system operations.

b) Water system infrastructure maintenance, repairs and/or projects.

None.

c) Static levels, drawdown levels and flow rates on the Trinity Well.

City Administrator Nancy Cain stated that the drawdown level was 153.0 and that when the well turns off, the water level returns to the current static level of 191.7 within 5 minutes.

d) Water and/or Drought Management

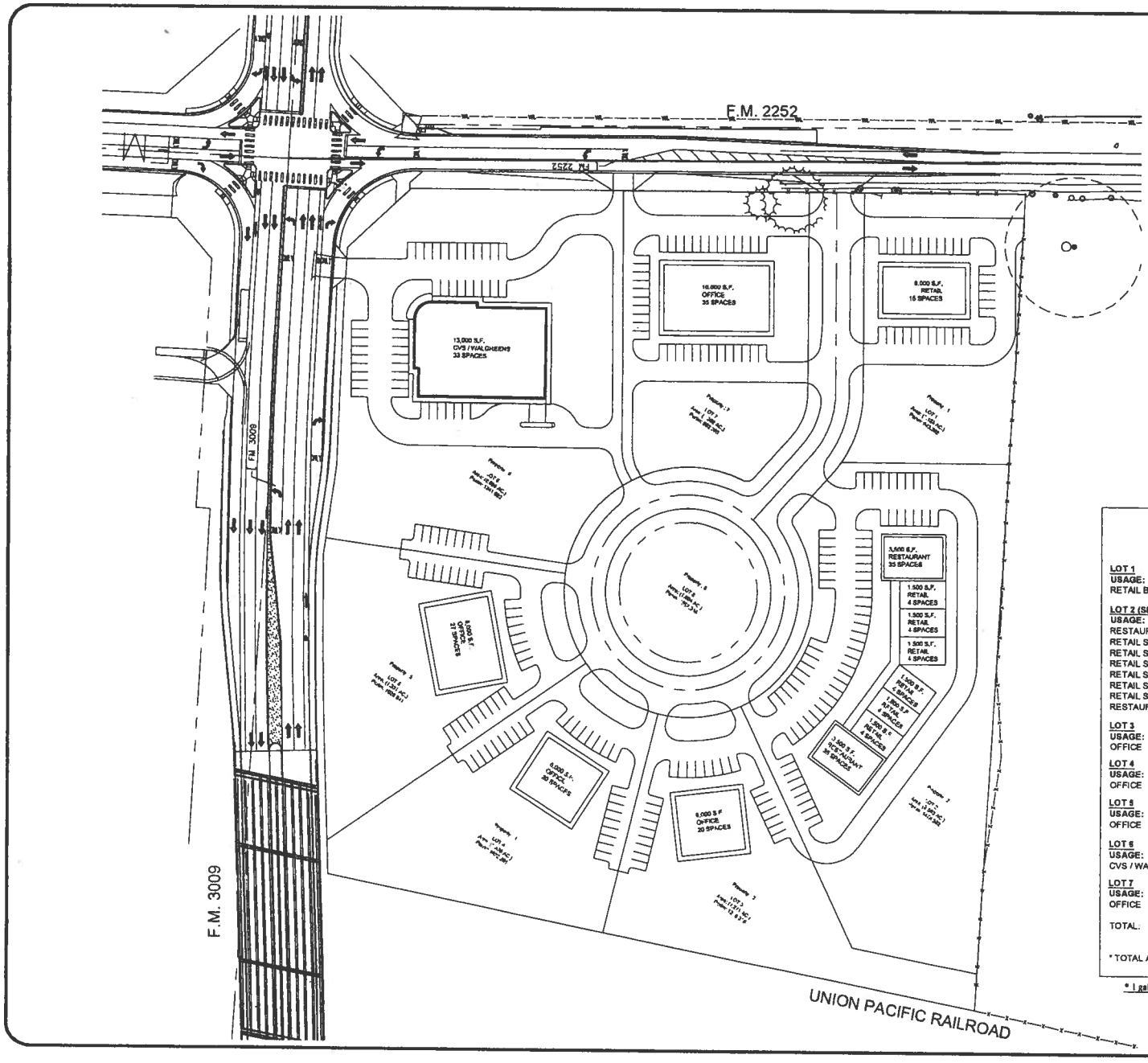
No discussion was held.

8. Adjourn:

Motion to adjourn was made by Commissioner Holloway and seconded by Commissioner Heier. The motion passed unanimously and the meeting adjourned at 7:12 P.M.

Sandy Edwards

Sandy Edwards, Administrative Assistant
Water Commission Secretary



Being 13.532 acres of land, situated in the City of Garden Ridge Comal County Texas, being part of a called 13.375 acre remnant of a 116 acre tract out of the Geo. M. Dolson Survey Number 96, Abstract Number 120, said 116 acre tract conveyed to Monroe Wetz and wife, Mary A. Wetz, by deed recorded in Volume 280, Page 181, Official Public Records of Comal County Texas.

WATER USAGE:

LOT 1

USAGE:	SIZE:	Gal./Day	Gal./Mo.
RETAIL BUSINESS	6,000 s.f.	200	6,083

LOT 2 (SHOPPING CENTER)

USAGE:	SIZE:	Gal./Day	Gal./Mo.
RESTAURANT(60-70 SEATS)	3,500 s.f.	906	27,557
RETAIL STORE(SMALL)	1,500 s.f.	50	1,520
RETAIL STORE(SMALL)	1,500 s.f.	50	1,520
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RETAIL STORE(SMALL)	1,500 s.f.	50	1,520
RESTAURANT(60-70 SEATS)	3,500 s.f.	906	27,557

LOT 3

USAGE:	SIZE:	Gal./Day	Gal./Mo.
OFFICE	6,000 s.f.	480	14,600

LOT 4

USAGE:	SIZE:	Gal./Day	Gal./Mo.
OFFICE	6,000 s.f.	480	14,600

LOT 5

USAGE:	SIZE:	Gal./Day	Gal./Mo.
OFFICE	8,000 s.f.	640	19,467

LOT 6

USAGE:	SIZE:	Gal./Day	Gal./Mo.
CVS / WALGREENS	13,000 s.f.	800	24,333

LOT 7

USAGE:	SIZE:	Gal./Day	Gal./Mo.
OFFICE	10,000 s.f.	800	24,333
TOTAL:	57,000 s.f.	5,512	167,657

* TOTAL ACRE-FEET PER YEAR = 6.17(acre-ft/yr)

* 1 gallon US per day (gal/day) = 0.0011 acre feet per year (acre-ft/yr)

FORD ENGINEERING INC.
ENGINEERING · SURVEYING · PLANNING
10827 WYE DRIVE, SUITE 104, SAN ANTONIO, TEXAS 78217
PHONE: (210) 590-4111 FACSIMILE: (210) 590-4610
www.fordengineering.com TBPE No. F-1182

FOR INTERIM REVIEW NOT FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

UNDER THE AUTHORITY OF Mark S. Hill, P.E. 84884 ON 7/26/2012

TBPE No F-1182

REVISIONS

NO.	DATE	DESCRIPTION

CONCEPTUAL PLAN
TUSCAN VILLAGE
13.532 ACRE COMMERCIAL BUSINESS PARK
CONCEPTUAL PLAN

PROJECT NO. 2339.00
JULY 26, 2012

1 OF 1

CITY OF GARDEN RIDGE WATER VARIANCE POLICY DURING WATER DROUGHT STAGE OONDITIONS.

WHEREAS, THE CITY OF GARDEN RIDGE OFTEN IN CONJUNCTION WITH THE EDWARDS AQUIFER AUTHORITY (EAA) ENTER WATER DOUGHT STAGES FOR THE PURPOSE OF CONSERVING WATER RESOURCES DURING DROUGH CONDITIONS , IT SHALL BE THE POLICY OF GARDEN RIDGE WATER COMMISSION TO RECOMMEND DISAPPROVAL FOR ALL REQUESTS FOR VARIANCE TO ORDINANCE #61 SO AS NOT TO JEOPARDIZE PRECIOUS WATER RESOURCES AND CREATE PRECEDENT. ALL SUCH REQUESTS MAY BE SUBMITTED TO THE COMMISSION , HOWEVER WITHOUT SUBSTANCIAL, SIGNIFICANT UNORDINARY CIRCUMSTANCES WILL NOT BE FAVORABLY CONSIDERED.

DROUGHT. - Adding T to end of Drought.

22117 Senna Hills Dr.
Garden Ridge, TX 78266
September 18, 2012

City of Garden Ridge
9400 Municipal Pkwy.
Garden Ridge, TX 78266

Gentlemen:

My lawn is composed of Floratam St. Augustine grass. Unfortunately, that does poorly in direct sunlight, such that the front of the lawn has died off. In response to that, the areas of dead grass have been replaced with sod -- two times. The last time was during the Spring. The new sod covers most of the problem area. I elected not to correct all of the problem area. That is because of the expense involved, and I knew this was a temporary stop-gap measure until the Fall. That is when I planned to have a landscaper correct the area in the front of the lawn that gets direct sunlight most of the day, improve the flower beds, and create mulched areas that enhance the appeal of the lawn.

Two flower beds have been improved. More work will be done this Fall. Mulched areas may be added to the front lawn this Fall.

Schultz Landscaping has submitted a proposal to replace the problem area area with Raleigh St. Augustine grass, in addition to other items that will enhance the lawn. That variety does better that Floratam in direct sunlight. The grass will need to be watered daily for three weeks to get the grass established. The easiest way would be to use the sprinkler system. Most of the problem area is covered by one zone (zone 6).

Historically, thunderstorms dump rain in the area during October. If that happens this year, then the sprinkler system will not be used during those events. (The sprinkler system has a rain detector.)

The Georg Ranch Architectural Review Committee has approved replacing this area with Raleigh St. Augustine grass.

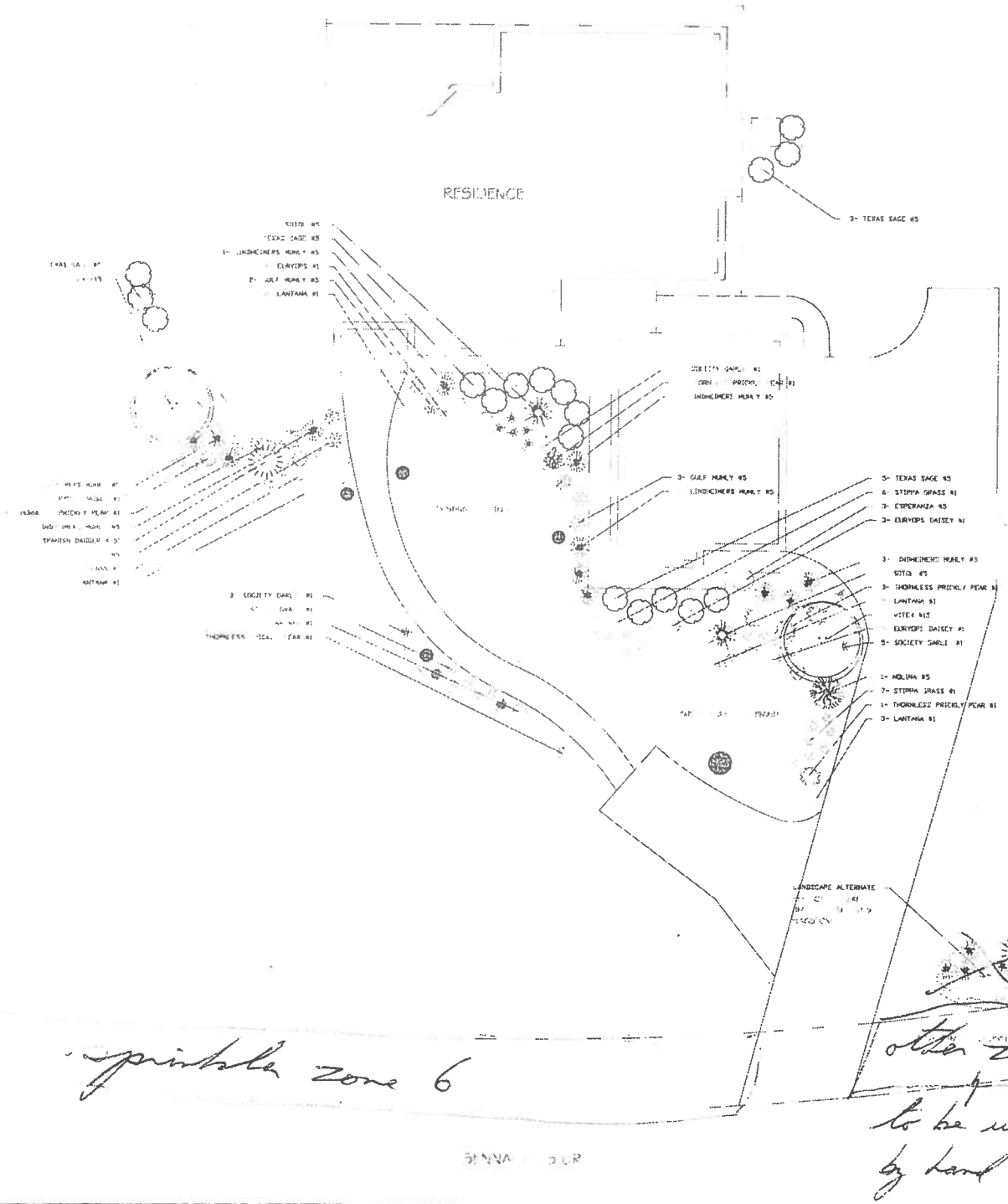
So, I'm requesting a water variance to be effective only where the landscaping will be performed, begin immediately after the new grass has been installed, and be in effect for three weeks to:

- Use one sprinkler zone (zone 6) for 25 minutes daily at nighttime,
- Use the drip irrigation method at any time for three weeks (as permitted in Stage 2) for areas that are not covered by sprinkler zone 6, and
- Water by hand the area at anytime for three weeks (permissible under Stage 3).

Sincerely,

Stan Cobb

RECEIVED
SEP 18 2012
PER



Stan Cobb
22117 Senna Hills Drive
Garden Ridge, TX

SCHULTZ
Landscapes

5038 BACON ROAD
SAN ANTONIO, TEXAS 78249
(o) 210-408-7010 (f) 210-408-7130
www.schultzlandscapes.com

General Notes

No.	Revision/Issue	Date

AN ORDINANCE ESTABLISHING THE DROUGHT MANAGEMENT PLAN FOR THE CITY OF GARDEN RIDGE; PROVIDING DEFINITIONS, ESTABLISING TRIGGER POINTS FOR STAGES 1 THROUGH 5, RESTRICTING THE USE OF WATER UPON IMPLEMENTATION OF SPECIFIC STAGES OF SAID PLAN; ESTABLISHING WATER SURCHARGE RATES FOR STAGES 3 THROUGH 5 OF SAID PLAN; PROVIDING A VARIANCE PROCEDURE; PROVIDING A PENALTY CLAUSE; PROVIDING FOR SEVERABILITY AND PROVIDING AN EFFECTIVE DATE AND AMENDING ORDINANCE NO. 61-122011 ADOPTED DECEMBER 7, 2011

WHEREAS, The City of Garden Ridge is a Type A, General Law Municipality located in Comal County, Texas, and;

WHEREAS, the 2010 estimated population of the City of Garden Ridge is approximately 3,259 residents. It is anticipated that the City of Garden Ridge will have a population of 4,450 in the year 2015, and;

WHEREAS, the Edwards Aquifer Authority is a regional authority managing water pumped out of the Edwards Aquifer by the City of Garden Ridge and has set standards for the Emergency Water Use Reduction Program in the region;

WHEREAS, the City of Garden Ridge uses both water from the Edwards Aquifer and from the Trinity Aquifer to provide water to residents of the City of Garden Ridge as well as persons residing within the Certificate of Convenience and Necessity (CCN) of the City of Garden Ridge;

WHEREAS, the Trinity Aquifer is currently an unregulated water source;

WHEREAS, the City of Garden Ridge relies on the Trinity Aquifer for the majority of its water resources;

WHEREAS, the level of the Trinity well affects the ability of the city to provide unrestricted water sources; and

WHEREAS, The City of Garden Ridge has determined that certain restrictive measures are required to delay potentially serious water shortage problems from impacting to the detriment of the health, safety and welfare of the Garden Ridge community.

NOW THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE City of Garden Ridge, TEXAS;

SECTION 1-- Previous Ordinances

City of Garden Ridge Ordinance Number 61-082011 dated August 29, 2011 including all attachments and amendments thereto, is hereby amended.

SECTION 2 -- Definitions

The following words and terms, when used in this plan, shall have the following meanings unless the context clearly indicates otherwise:

ACT. The Act creating the Edwards Aquifer Authority, namely the Edwards Aquifer Authority Act of May 30, 1993, 73rd Leg.R.S. Ch. 626, 1993 Texas General Laws 2353, as amended.

AESTHETIC USE. The use of water for fountains, waterfalls, and landscape lakes and ponds where such use is entirely ornamental and serves no other functional purpose.

AGRICULTURAL IRRIGATION. Irrigation for the purpose of growing crops commercially for human consumption or to use as feed for livestock or poultry.

BUCKET. Bucket or other container holding five gallons or less, used singly by one person.

CONNECTION. A metered or unmetered delivery point to a customer or other receiver of water from an organized water distribution system.

CONSERVATION. Those practices, techniques, and technologies that will reduce the consumption of water, reduce the loss or waste of water, improve the efficiency in the use of water, or increase the recycling and reuse of water so that a water supply is made available for future or alternative uses.

DEMAND REDUCTION MEASURE. A specific action to be taken by defined categories of users to reduce the pumpage demand on the Edwards Aquifer during a drought.

DOMESTIC TYPE USE. The use of water, other than uses in the outdoor category, for personal needs or for household purposes, such as drinking, bathing, heating, cooking, sanitation or cleaning, whether the use occurs in a residence or in a commercial or industrial facility.

DROUGHT. A period of shortage of precipitation of seasonal or longer duration.

EDWARDS AQUIFER. That portion of an arcuate belt of porous, water-bearing limestones composed of the Edwards Group Limestone and Associated Formations trending from west to east to northeast through Kinney, Uvalde, Medina, Bexar, Comal and Hays Counties.

HAND-HELD HOSE. A hose attended by one person, fitted with a manual or automatic shutoff nozzle.

HEALTHCARE FACILTY. Any hospital, clinic, nursing home or other healthcare or medical research facility.

IMPERVIOUS SURFACE AREA. Any structure or any street, driveway, sidewalk, patio or other surface area covered with brick, paving, tile or other impervious material.

INDUSTRIAL USE. The use of water integral to the production of primary goods and services provided by industrial or commercial facilities, Industrial facilities include facilities which perform such process-specific activities as cooling, boiler feed, cleaning and washing, pollution control, extraction and separation of desirable material from products and waste materials and the incorporation of water into final products, Commercial facilities include, but are not limited to, food service facilities, hotels, retail facilities and nursery operations.

INDUSTRIAL USER. An industrial or commercial water user whose use of water is integral to the production of primary goods and services provided by industrial or commercial facilities.

INDUSTRIAL WELL USER. An industrial user who owns one or more wells that produce water used for industrial or commercial facilities.

IRRIGATOR. A well owner who uses water to irrigate land for growing commercial crops.

LANDSCAPE WATERING. The application of water to grow landscaping plants.

LANDSCAPE PLANT. Any member of the plant kingdom, including any tree, shrub, vine herb, flower, succulent, groundcover or grass species that grows or has been planted out-of-doors and is used for landscaping purposes or for the support of intensive recreational areas such as playgrounds and playing fields.

LIVESTOCK. Cattle, sheep, goats, hogs, poultry, horses and game, domestic, exotic and other animals and birds, including zoo animals, used for commercial or personal purposes.

LIVESTOCK USE. The use of water for drinking by or washing of livestock.

MSL. Mean sea level.

MUNICIPALITY. A city or other governmental unit with the authority to make and enforce ordinances.

ORDER. A written order of the City Council or Mayor of the City of Garden Ridge, Texas.

OTHER OUTSIDE USE. The use of water outdoors for the maintenance, cleaning and washing of structures and mobile equipment, including automobiles and boats, the washing of streets, driveways, sidewalks, patios and other similar areas.

PERSON. Any individual, firm, entity, corporation, municipal corporation, governmental or proprietary body, including the United States or the State of Texas, or association of persons.

REDUCTION GOAL. The amount of reduction in pumpage volume, expressed in a percentage from baseline pumpage volume for each drought stage.

REUSE. The use by any user of Edwards Aquifer water that has been recycled or reclaimed for any beneficial purpose, after such water has been previously used for any beneficial purpose, whether or not any treatment of such groundwater may be required in connection with such recycling or reclamation.

STAGE. One of the five designated drought stages, which may be declared by the City or the Edwards Aquifer Authority.

SUPPLIER. Any person who supplies water to customers for residential, commercial, industrial, military or other uses, including a public or private water company, water supply corporation, municipality and water district. Unless specifically provided in these rules.

TRIGGER CONDITIONS. Those specific conditions of rainfall amounts, Edwards Aquifer water level elevations, spring discharges and water quality which the Authority will monitor and use as indicators of the occurrence of drought conditions for purposes of declaring the various stages.

TRIGGER POINTS. Special conditions experienced by the City of Garden Ridge, which authorize the city to initiate Stage 1 through 5 of the City of Garden Ridge Drought Management Plan.

TRINITY AQUIFER WELL. A source of water for the City of Garden Ridge which is located in the Cow-Creek formation of the Trinity Aquifer.

USE FOR A BENEFICIAL PURPOSE. Water which is used, without regard to priority, for:

(1) agricultural, commercial, domestic, gardening, industrial, manufacturing, mining, municipal, pleasure, recreational or stock raising purposes-
(2) exploring for, producing, handling or treating oil, gas, sulfur or other materials; or
(3) any other purpose that is useful and beneficial to the user.

USER. A person, public or private, who produces, distributes or uses water from an Edwards Aquifer well or from the Trinity Aquifer well.

VARIANCE. An authorized exception from compliance by the user with any provision of the Rules granted by this Ordinance.

WASTE.

(1) The flowing or producing of groundwater from wells in the Edwards Aquifer or Trinity Aquifer if the water flowing or produced is not used for a beneficial purpose by any user,
(2) The unreasonable loss of groundwater through faulty design or negligent operation of a well or water delivery or application system; or

(3) Using quantities of groundwater for a purpose that otherwise would be considered beneficial in excess of quantities reasonably necessary for that purpose.

WATER UTILITY USE. Water used for withdrawal, treatment, transmission and distribution by potable water systems.

SECTION 3 –Demand Reduction Measures

The demand reduction measures for all water uses for Stages 1, 2, 3, 4 and 5 are set out in Appendix A, provided. For clarification, certain permitted and exempt water uses are listed.

Listed below are the trigger points for the various stages of the Drought Management Plan.

TABLE 1	
Reduction Stage	**J-17 Well Level**
1	66o'
2	650'
3	640'
4	630'
5	As Declared by Edwards

SECTION 4 – Emergency Water Use Reduction

4.01 -- Declaration of Emergency Stages

The Mayor of Garden Ridge is authorized to order, by proclamation, implementation of provisions of Stages 1 through 5 of the City of Garden Ridge Drought Management Plan when the appropriate trigger points as established in this Ordinance are met.

The City of Garden Ridge shall determine when conditions warrant implementation of the Emergency Water Use Reduction Program. The program is implemented when any one of the below Trigger Points is reached. The City of Garden Ridge may advance stages, as needed to effect compliance with pumping limit goals. The various stages may be declared as shown in Appendix A.

TRIGGER POINTS:

1) Declaration of Stages 1 through 5 by the Edwards Aquifer Authority ***and/or at the discretion of the Mayor, City of Garden Ridge.***
2) The level of the Edwards Aquifer Authority Test Well J-17 reaches a level of Stages 1 through 5 Emergency Water Use Reduction as defined by Edwards Aquifer Authority.
3) When the pumping ability of the Trinity Aquifer well drops to 600 GPM or draw down level of the well reaches seventy-five (75) feet above the transponder.
4) When the city's pumping capacity is reduced by infrastructure damage or equipment failure.

4.02 -- Public Issuance of Drought Stage Declaration

The Declaration of a critical use stage will be publicly issued by the City of Garden Ridge. Such declaration shall be ~~published a minimum of one (1) time in the official City newspaper.~~ ***placed on the City signs and distributed by phone (CTY system), posted on city website and/or published in the official city newspaper.***

4.03 -- Restricting the Use of Water

a. Upon declaration of a critical use stage by the City of Garden Ridge, compliance with the Emergency Water Use Reduction Program demand reduction measures shall be required and compliance with the voluntary measures shall be encouraged.
b. Demand reduction measures are attached as Appendix A, and are herein incorporated for all purposes.
c. Upon declaration of a critical use stage by the City of Garden Ridge, the sale of water to a temporary user for use outside the city shall be prohibited. The sale of water to a temporary user for use within the City of Garden Ridge shall be at the discretion of the Public Works Director.

4.04 -- Water Rate Surcharges

a. Critical Period Surcharges will be implemented in accordance with the following schedule:

    (1) Stage 3: Customers will be charged the current water rate plus a 100% surcharge for use over 45,000 gallons.

    (2) Stage 4: Customers will be charged the current water rate plus a 200% surcharge for use over 45,000 gallons.

    (3) Stage 5: Customers will be charged the current water rate plus a 200% surcharge for use over 45,000 gallons.
b. Water rate surcharges will remain in effect only so long as the City is in Stages 3, 4 or 5 of the Drought Management Plan.
c. Water rate surcharges shall coincide with the normal billing cycle of the Garden Ridge Water Department. Surcharges shall be applied to the next billing cycle following the implementation of Stages 3, 4 or 5.
d. Surcharge revenues shall be held in a reserve fund to be created within the current fiscal year budget. Such revenue is to be used for the following purposes:
    (1) For the payment of any legal fees, consultant fees, studies, etc. that are incurred because the city is using more water than the allowable rate/amount established by an authorized political entity.
    (2) For the payment of any fines or administrative penalties imposed by a legal or judicial entity related to excess pumpage, or;
    (3) For the payment of any fees incurred to pursue alternate water sources.

4.05 – Payment of City-wide Fines and/or Penalties

a. In the event that a governmental agency levies a fine or penalty against the City of Garden Ridge associated with water usage, the amount of the fine or penalty shall be pro-rated amongst all customers *exceeding the average use and* having an active account with the City during the time period subject to the fine as a recovery assessment.
b. Each active account holder who exceeds the average water usage for the period subject to the fine, shall have an assessment placed on their water bill during the month immediately following the levy of such a fine or penalty.
c. The amount of the assessment for any customer shall be based on usage above the average of all customers' water usage for the fine/penalty month. In computing the assessment, the City shall use the following variables: the amount of the fine/penalty (fine); the average usage per water connection for the period of the fine (average); the individual customer's usage above the average; and the total of all customers' usage above the average.

    The assessment for any individual customer shall be the amount of the fine, multiplied by the ratio of the individual customers' usage above the average to the total of all customers' usage above the average.

d. Customers that have received an adjustment to their water bill for a fast meter, customer leaks, etc in accordance with Ordinance 54, Paragraph 14.07 shall have their assessment based upon the approved adjusted amount.

e. For the purposes of this assessment, average use for the time period of the fine will be determined by the total gallons pumped divided by the number of water customers. Usage below the average shall not be subject to an assessment.

4.06 -- End of Emergency Use Restrictions

a. Trinity Aquifer

The program and/or each stage may be terminated or changed at the discretion of the City of Garden Ridge after the trigger condition of a stage has been exceeded and after considering the 10 day rolling average of the appropriate index well level, pumping trends, current precipitation and the outlook for additional precipitation.

b. Edwards Aquifer

The program and /or each stage may be terminated or changed upon declaration of the Edwards Aquifer Authority (EAA) and/or at the discretion of the Mayor, City of Garden Ridge.

SECTION 5 – Penalties

a. A person who knowingly or intentionally violates the provisions of this Ordinance shall be deemed guilty of a misdemeanor offense and upon conviction be punished by a fine of not less than twenty-five dollars ($25.00) and not more than two thousand dollars ($2,000). Each day's violation constitutes a separate offense. Compliance may also be sought through injunctive relief in the District Court.

b. No violation, definition or penalty under this section shall have bearing on any violation, definition or penalty under any other section of this Ordinance.

SECTION 6 – Enforcement

a. Applicable to Resident and Non-Resident Customers

For purposes of this Ordinance, it shall be presumed that any person, corporation or association in whose name a water meter connection is registered with the City of Garden Ridge Water Company, has knowingly made, caused, used or permitted to use the water received from the City and that use of said water in a manner contrary to the provisions of Ordinance No.61, or in an amount in excess of the use permitted by the conservation stage in effect, is considered a violation of Ordinance No.61 by that non-resident person, corporation or association. Proof that the particular premises have a water meter connection registered in the name of the defendant named in a complaint issued under the auspices of Ordinance No.61 shall constitute in evidence a prima facie presumption that the person in whose name such water connection was registered was the person who permitted the illegal use of water to occur on the premises.

b. Applicable to Non-Resident Customers Only

Any non-resident person, corporation or association in whose name a water meter connection is registered with the City of Garden Ridge Water Company who shall violate a provision of Ordinance No.61 and orders promulgated there under when Stage 1, Stage II, Stage III, Stage IV, or Stage V are in effect, shall be held strictly liable, and shall be subject to an Administrative Hearing before the City Water Commission to show cause whether water service should be discontinued for all or any part of a day or consecutive days to such non-resident person, corporation or association. Provisions shall be made to allow for the provision of water in an amount necessary to provide for human health and safety requirements. In the event termination is ordered, an appeal to the City Council may be made if filed in

writing with the Mayor within three (3) days of the termination order. Compliance may also be sought through injunctive relief in District Court.

SECTION 7 – Variances

a. Request for Variance
A person may file a written request for a variance from these rules with the City of Garden Ridge. The request must contain the following information;
   (1) The specific nature of the variance requested
   (2) A detailed explanation of why the person believes he/she should be granted the variance, including any supporting documentation;
   (3) A signed statement that the facts contained in the request are true and within the person's personal knowledge.

b. Additional Information
The City of Garden Ridge may request the variance requester to provide additional information, which must be filed within ten calendar days of the request or as otherwise directed in the request.

c. When Variance May be Granted
   (1) The variance is necessary to avoid an unusual, direct and substantial hardship
   (2) There are no other reasonably available means for avoiding the hardship without a variance;
   (3) Granting the variance is consistent with the goals of this Ordinance; and
   (4) Granting the variance will not cause significant harm to any other person or group of persons or result in the City of Garden Ridge being in violation of regulatory requirements.

d. Terms and Conditions of the Variance
   (1) The City of Garden Ridge may grant a variance for such a term and in accordance with any conditions the City of Garden Ridge deems appropriate.
   (2) It shall be a term of every variance granted by the City of Garden Ridge that the variance may be rescinded based on changed circumstances, new information, or failure of the holder of the variance to abide by the terms and conditions of the variance or to comply with these rules or any other order or rule of the City of Garden Ridge.
   (3) The City of Garden Ridge may require a person granted a variance to file reports with the City of Garden Ridge containing such information as the City of Garden Ridge believes relevant to monitoring the continuing appropriateness of the variance.

SECTION 8 – Severability

If any section, paragraph, subdivision, clause or phrase of this ordinance shall be adjudged invalid or held unconstitutional, the same shall not affect the validity of this ordinance as a whole or any part of any provision thereof other than the part so decided to be invalid or unconstitutional.

SECTION 9 – Effective Date

This ordinance shall take effect immediately upon its passage, approval and publication according to law.

PASSED AND APPROVED THIS 7TH DAY OF DECEMBER, 2011.

_____
Jay F. Feibelman, Mayor

ATTEST:

_____
Shelly Goodwin, City Secretary

APPENDIX A
DEMAND REDUCTION MEASURES

Watering by automated irrigation systems is restricted year round between the hours of 10 am and 8 pm.

STAGE 1

Stage One Alert begins when the Edwards Aquifer Authority Test Well J-17 level reaches **660** feet mean sea level at the monitored well ***and is declared by the Edwards Aquifer Authority (EAA) and/or at the discretion of the Mayor, City of Garden Ridge.***

1. *Water waste is prohibited to include, allowing water to run off onto a gutter, ditch, or drain; or failing to repair a controllable leak.

2. *Watering with an irrigation system or sprinkler, permitted only during the hours of 12 a.m. to 10 a.m. and 8 p.m. to 12 a.m.:

3. Watering with an irrigation system or sprinkler, permitted only once a week on the designated watering day:

Last Digit of Address	Day
0 or 1	Monday
2 or 3	Tuesday
4 or 5	Wednesday
6 or 7	Thursday
8 or 9	Friday

   Areas without a street address, such as medians, neighborhood entryways or common areas water on Wednesdays.

4. Watering with hand-held hose or drip irrigation permitted any day, any time.

5. Residential, commercial, industrial, and agricultural Edwards Aquifer water users should reduce water consumption by any means available.

~~6. Pools must be covered at least 25% when not in use.~~

6 Washing impervious cover such as parking lots, driveways, streets or sidewalks is prohibited.

7. Non-commercial washing of vehicles and mobile equipment (e.g. washing vehicles at a residence) is permitted any day at any time over landscape or other surface where run off is minimized and with the use of a hose using an automatic shut-off nozzle or bucket of 5 gallons or less.

8. Restaurants and other eating establishments are prohibited from serving groundwater to customers except upon request of the customer.

~~10. Aesthetic fountains, waterfalls, etc. (outdoor and/or indoor) are prohibited unless water is re-circulated or recycled.~~

9. No building permits will be issued to homeowners or pool contractors for the construction of new swimming pools unless verification is provided that 100% of water for filling of pool will be brought in from a water source outside of Garden Ridge.

10. Restrictions apply to well users.

This does not apply to non- potable water, gray water, or treated effluent.

Stage 1 restrictions continue until there is an announcement that Stage 1 has been canceled or that Stage 2 is in effect.

~~*Requirements 1 and 2 of Stage 1 apply throughout the year unless a stricter stage is in effect.~~

STAGE 2

Stage Two Alert begins when the Edwards Aquifer Authority Test Well J-17 level reaches **650** feet mean sea level at the monitored well ***and is declared by the Edwards Aquifer Authority (EAA) and/or at the discretion of the Mayor, City of Garden Ridge.***

~~1. All restrictions from Stage 1.~~

1. ***Water waste is prohibited to include, allowing water to run off onto a gutter, ditch, or drain; or failing to repair a controllable leak.***

2. Watering with an irrigation system or sprinkler, permitted only once a week on the designated watering day during the hours of 3 a.m. to 8 a.m. and 8 p.m. to 10 p.m.:

Last Digit of Address	**Day**
0 or 1	Monday
2 or 3	Tuesday
4 or 5	Wednesday
6 or 7	Thursday
8 or 9	Friday

Areas without a street address, such as medians, neighborhood entryways or common areas water on Wednesdays.

3. Watering with drip irrigation or a 5 gallon bucket permitted during the hours of 3 a.m. to 8 a.m. and 8 p.m. to 10 p.m. any day.

4. Watering with a hand held hose permitted any day, any time.

5. ***Washing impervious cover such as parking lots, driveways, streets or sidewalks is prohibited.***

6. ***Non-commercial washing of vehicles and mobile equipment (e.g. washing vehicles at a residence) is permitted any day at any time over landscape or other surface where run off is minimized and with the use of a hose using an automatic shut-off nozzle or bucket of 5 gallons or less.***

7. ***Restaurants and other eating establishments are prohibited from serving groundwater to customers except upon request of the customer.***

8. ***No building permits will be issued for the construction of new swimming pools. The City Administrator may grant a variance for the construction of a swimming pool with proof that water for construction and filling of the pool will be brought in from a water source outside of the city.***

9. ***Filling of existing swimming pools is prohibited unless at least 30% of the water is obtained from a source other than City provided. Groundwater may be used to replenish swimming pools to maintenance levels. Drainage of swimming pools is permitted only onto a permeable surface or onto a pool deck where water is transmitted directly to a permeable surface.***

10. ***Restrictions apply to well users.***

This does not apply to non- potable water, gray water, or treated effluent.

Stage 2 restrictions continue until there is an announcement that Stage 2 has been canceled or that Stage 3 is in effect.

STAGE 3

Stage Three Alert begins when the Edwards Aquifer Authority Test Well J-17 level reaches **640** feet mean sea level at the monitored well ***and is declared by the Edwards Aquifer Authority (EAA) and/or at the discretion of the Mayor, City of Garden Ridge.***

1. ~~All restrictions from Stage 2~~.

1. Watering with an irrigation system, soaker hose or sprinkler is permitted every other week beginning on the second Monday after Stage III has been declared and only on designated watering day from 3 a.m. – 8 a.m. and 8 p.m. – 10 p.m.

Last Digit of Address	Day
0 or 1	Monday
2 or 3	Tuesday
4 or 5	Wednesday
6 or 7	Thursday
8 or 9	Friday

Areas without a street address, such as medians, neighborhood entryways or common areas water on Wednesdays.

2. Watering with a drip irrigation or 5 gallon bucket permitted during the hours of 3 a.m. to 8 a.m. and 8 p.m. to 10 p.m. Monday, Wednesday and Friday.

3. Watering with a hand held hose permitted any day, any time.

4. Watering newly planted landscapes permitted only with a variance from Garden Ridge City Council.

5. Washing cars at home is permitted any day at any time over landscape or other surface where run off is minimized and with the use of hose using automatic shut-off nozzle or bucket of 5 gallons or less. Water runoff into streets is prohibited.

6. Water runoff onto streets is prohibited.

7. No person may use groundwater or city provided water for an ornamental outdoor fountain or similar feature.

8. No building permits will be issued for the construction of new swimming pools. The City Administrator may grant a variance for the construction of a swimming pool with proof that water for construction and filling of the pool will be brought in from a water source outside of the city.

9. ***Filling of existing swimming pools is prohibited unless at least 30% of the water is obtained from a source other than City provided. Groundwater may be used to replenish swimming pools to maintenance levels. Drainage of swimming pools is permitted only onto a permeable surface or onto a pool deck where water is transmitted directly to a permeable surface.***

10. ***Water customers subject to a 100% surcharge for use over 45,000 gallons.***

This does not apply to non- potable water, gray water, or treated effluent.

Stage 3 restrictions continue until there is an announcement that Stage 3 has been canceled or that Stage 4 is in effect.

STAGE 4

Stage Four Alert begins when the Edwards Aquifer Authority Test Well J-17 level reaches **630** feet mean sea level at the monitored well.

1. All restrictions in Stage 3.

2. Water customers subject to a 200% surcharge for use over 45,000 gallons.

3. Additional restrictions on water use may be established at the discretion of the City Council.

This does not apply to non- potable water, gray water, or treated effluent.

Stage 4 restrictions continue until there is an announcement that Stage 4 has been canceled or that Stage 5 is in effect.

STAGE 5

Stage Five Alert begins when declared by the Edwards Aquifer Authority.

1. All restrictions in Stage 4.

2. Conditions as directed by the Mayor and City Council

3. Use Necessary for Public Health or Safety.

4. Notwithstanding any provision of these rules, groundwater may be used when and to the extent it is necessary to prevent danger to public health, safety or welfare or to the extent required by State or Federal law.

5. Water customers subject to a 200% surcharge for use over 45,000 gallons.

This does not apply to non- potable water, gray water, or treated effluent.

APPENDIX B Schedule of Additional Assessment

Usage Blocks (000)

Fine Amount ($)	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 to 95	95 to 105	105 to 115	115 to 125	125 to 135	135 to 145	145 +
1,000	0.38	1.07	1.77	2.46	3.16	3.85	4.55	5.24	5.94	6.63	7.33	8.02	8.72	11.61
2,000	0.76	2.15	3.54	4.93	6.32	7.71	9.10	10.49	11.88	13.27	14.66	16.05	17.44	23.22
3,000	1.14	3.23	5.31	7.40	9.48	11.57	13.65	15.74	17.82	19.91	21.99	24.08	26.16	34.84
4,000	1.52	4.30	7.08	9.75	12.60	15.23	18.13	21.17	23.64	26.74	29.74	32.33	34.91	46.45
5,000	1.90	5.30	8.89	12.18	15.75	19.04	22.66	26.47	29.55	33.42	37.18	40.41	43.63	58.06
6,000	2.28	6.36	10.67	14.62	18.90	22.85	27.20	31.76	35.46	40.11	44.61	48.49	52.36	69.68
7,000	2.66	7.42	12.45	17.06	22.05	26.66	31.73	37.06	41.38	46.79	52.05	56.57	61.09	81.29
8,000	3.04	8.48	14.23	19.50	25.20	30.47	36.26	42.35	47.29	53.48	59.48	64.65	69.82	92.91
9,000	3.42	9.54	16.00	21.94	28.35	34.28	40.81	47.65	53.20	60.16	66.92	72.74	78.55	104.52
10,000	3.80	10.61	17.78	24.37	31.50	38.09	45.33	52.95	59.11	66.85	74.36	80.82	87.27	116.13
11,000	4.18	11.67	19.56	26.81	34.65	41.90	49.86	58.24	65.02	73.54	81.79	88.90	96.00	127.75
12,000	4.56	12.73	21.34	29.25	37.80	45.71	54.40	63.53	70.93	80.22	89.23	96.98	104.73	139.36
13,000	4.92	13.79	23.12	31.69	40.95	49.51	58.93	68.83	76.85	86.91	96.66	105.06	113.46	150.97
14,000	5.32	14.85	24.90	34.13	44.11	53.32	63.46	74.12	82.76	93.59	104.10	113.14	122.18	162.59
15,000	5.70	15.91	26.68	36.56	47.26	57.13	68.00	79.42	88.67	100.28	111.54	121.23	130.91	174.20
16,000	6.08	16.97	28.46	39.00	50.41	60.94	72.53	84.71	94.58	106.96	118.97	129.31	139.64	185.82
17,000	6.46	18.03	30.23	41.44	53.56	64.75	77.06	90.01	100.49	113.65	126.41	137.39	148.37	197.43
18,000	6.84	19.09	32.01	43.88	56.71	68.56	81.60	95.30	106.40	120.33	133.85	145.48	157.10	209.04
19,000	7.22	20.15	33.79	46.31	59.86	72.37	86.13	100.60	112.32	127.02	141.28	153.55	165.82	220.66
20,000	7.60	21.22	35.57	48.75	63.01	76.18	90.66	105.89	118.23	133.71	148.72	161.64	174.55	232.27
21,000	7.98	22.28	37.35	51.19	66.16	79.99	95.20	111.19	124.14	140.39	156.15	169.72	183.28	243.89
22,000	8.36	23.34	39.13	53.63	69.31	83.80	99.73	116.48	130.05	147.08	163.59	177.80	192.01	255.50
23,000	8.74	24.40	40.91	56.07	72.46	87.61	104.27	121.78	135.96	153.76	171.03	185.89	200.74	267.11
24,000	9.12	25.46	42.69	58.50	75.61	91.42	108.80	127.07	141.87	160.45	178.46	193.96	209.46	278.73
25,000	9.50	26.52	44.47	60.94	78.76	95.23	113.33	132.37	147.79	167.13	185.90	202.05	218.19	290.34
26,000	9.88	27.58	46.24	63.38	81.91	99.03	117.87	137.66	153.70	173.82	193.33	210.13	226.92	301.95
27,000	10.26	28.64	48.02	65.82	85.07	102.84	122.40	142.96	159.61	180.51	200.77	218.21	235.65	313.57
28,000	10.64	29.70	49.80	68.26	88.22	106.65	126.93	148.25	165.52	187.19	208.21	226.29	244.37	325.18
29,000	10.99	30.77	51.58	70.69	91.37	110.46	131.47	153.55	171.43	193.88	215.64	234.37	253.10	336.80
30,000	11.40	31.83	53.36	73.13	94.52	114.27	136.00	158.84	177.34	200.56	223.08	242.46	261.83	348.41
addl 1,000	0.38	1.07	1.77	2.46	3.16	3.85	4.55	5.24	5.94	6.63	7.33	8.02	8.72	11.61