



City of Garden Ridge

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

AGENDA CITY WATER COMMISSION MEETING

Tuesday, January 27, 2015 at 6:00 P.M.

The Garden Ridge City Water Commission will meet in a regular session on Tuesday, January 27, 2015 at 6:00 p.m. in the City Council Chambers, 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, January 23, 2015 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.

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 please 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 would like to be shown.
- c. Limit remarks to three (3) minutes per citizen during Item 3.
- d. Citizen comments may be deferred to a specific Business Item set forth in Section 5, below, if such comments pertain to such Business Item.

*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. October 27, 2014 Special Joint Water Commission and City Council Meeting
 - b. November 17, 2014 Rescheduled 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 from JKS Engineering for future development of a 7.13 acre tract on Nacogdoches Loop as it pertains to water availability, water main extension funding by the city of Garden Ridge, water rights and water main easements
 - b. Possible amendments to Ordinance 54, Section 14.07c. Customer Leaks
 - c. Possible amendments to Ordinance 54, Section 35 Rebate Programs and Water Conservation Incentives
 - d. Possible amendments to Ordinance 61, 4.04 Water Rate Surcharges
 - e. Possible amendments to Ordinance 159 establishing landscape and irrigation system requirements for residential and commercial properties in the City of Garden Ridge for the purpose of water conservation; providing for variances and providing a penalty for violation of said ordinance
 - f. Update on status on reopening of Trinity well #2
 - g. Water Conservation Public Awareness Program for the City of Garden Ridge
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.



Nancy Cain
City Administrator

This is to certify that I, Nancy Cain, posted this Agenda at 11 a.m. on January 23, 2015 on the bulletin board located at the entrance to the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas.



Nancy Cain
City Administrator



City of Garden Ridge

9400 Municipal Parkway
Garden Ridge, Texas 78266-2600
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MINUTES OF SPECIAL CITY COUNCIL AND CITY WATER COMMISSION MEETING, OCTOBER 27, 2014

City Council Members Present:

Mayor Pro-Tem Nadine Knaus
Councilmember Todd Arvidson
Councilmember Bryan Lantzy
Councilmember Bobby Roberts

City Council Members Absent:

Mayor Andrew Dalton (excused absence due to health reasons)
Councilmember John McCaw (excused absence)

Members Present:

Chairman Jim Bower
Commissioner David Heier
Commissioner Richard Holloway
Commissioner Jim Kohl
Commissioner Ray Pitzen
Mayor Pro Tem Knaus

Member Absent:

Commissioner Pat Ramirez(excused absence)

City Staff Present:

Nancy Cain, City Administrator
Royce Goddard, Water Department Manager
Steven Steinmetz, Public Works Director
Shelley Goodwin, City Secretary

1. Call to Order

With a quorum of the City Council Members present, Mayor Pro-Tem Knaus called the special joint meeting of the Garden Ridge City Council and City Water Commission to order at 6:00 p.m. on Monday, October 27, 2014, in the City Council Chambers of the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas 78266.

2. Business Items:

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

a. Presentation of proposed legislation for the creation of the Comal Trinity Groundwater Conservation District

Mayor Pro Tem Knaus stated the stakeholders group of the Comal Trinity Groundwater Conservation District is developing legislation to send to Senator Campbell and Representative Miller for support as a bill. She introduced Bob Schwartz and Larry Hull who are on the Committee along with Jim Bower, Water Commission Chair.

Bob Schwartz and Larry Hull provided a PowerPoint outlining the history of the project, members, proposed make up, and NBU concerns. They stated they need to know if the City Council supports the legislation, elected or appointed members, and the cap production fee of \$30 or \$40 per acre foot.

b. Discussion on proposed legislation for the creation of the Comal Trinity Groundwater Conservation District

The City Council and Water Commission discussed the need for the Comal Trinity Groundwater Conservation District, proposed makeup of the board, and the cap production fee.

3. Citizen's Participation – 3 minute limit per citizen

Shelby Trial, 2657 Forest Waters Circle, inquired to whether there is a clause to dissolve the District if it is found to not be necessary.

Jerry Barucky, 20806 Woodland Cove, stated calling the group Stakeholders in confusing. He stated he feels there should be county wide protection of the aquifer.

Ken Knuepper, 8891 Schoentahl Road, stated the Cities of Schertz, Cibolo and San Antonio are going everywhere for water and he feels the water in Comal County should be protected.

Roberty Balch, 20592 Timber Rose, stated this legislation is for the future state of the City's water and feels pumping should be permitted.

Tracy Blackwell inquired to whether this legislation includes conservation uses for asphalt plants.

Linda Surs, stated she has lived in the area for 30 years and she is terrified about the lack of water. She also stated it upsets her that there is no regulation or control over builders and their uses.

Lil Tucker stated she is concern that once the legislation is completed and moved to the next process that another group can change the cost that was decided on.

Larry Scott, 21916 Deer Canyon Dr., stated he is encouraged by the legislation and inquired as to who will govern these regulations.

Jay Milikin, 9525 Teakwood, stated he has lived in Comal County for 22 years and feels water is a priority. He also feels that he would rather have the County set regulations instead of being told what the regulations are.

4. Business Items (continued)

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

- a. Continued discussion on proposed legislation for the creation of the Comal Trinity Groundwater Conservation District**

Bob Schwartz stated the legislation does provide a clause for dissolving the District if it is found to be no longer necessary. Chapter 36 provides the regulations that Groundwater Conservation Districts have to follow and Texas Water Development Board governs them.

5. Citizen's Participation – Limit remarks to three (3) minutes per citizen.

No one wished to speak.

6. Business Items (continued)

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

- a. City Water Commission recommendation to the Garden Ridge City Council concerning support of legislation for the creation of the Comal Trinity Groundwater Conservation District**
- b. City Council approval/disapproval of City Water Commission recommendation concerning support of legislation for the creation of the Comal Trinity Groundwater Conservation District to include City Council action on proposed legislation in the best interest of the City of Garden Ridge**

Water Commission Motion: A motion was made by Commissioner Heier, seconded by Commissioner Kohl, to recommend the City Council support the proposed legislation for the creation of the Comal Trinity Groundwater Conservation District. The Water Commission voted five (5) for and none (0) opposed. The motion carried unanimously.

Water Commission Motion: A motion was made by Commissioner Heier, seconded by Commissioner Pitzen, to recommend the City Council support a 5 member board in the proposed legislation for the creation of the Comal Trinity Groundwater Conservation District. The Water Commission voted five (5) for and none (0) opposed. The motion carried unanimously.

Water Commission Motion: A motion was made by Commissioner Heier, seconded by Commissioner Pitzen, to recommend to the City Council support the \$40.00 cap for acre feet in the proposed legislation for the creation of the Comal Trinity Groundwater Conservation District. The Water Commission voted five (5) for and none (0) opposed. The motion carried unanimously.

The City Council discussed the board makeup, pumping regulations, and the cap fee for acre foot.

Nadine Knaus, Mayor Pro tem, stated this item will be on the November 5, 2014 City Council Agenda for a vote.

6. Adjournment

There being no further business, the Monday, October 27, 2014 Garden Ridge City Council regular meeting was adjourned at 7:40 pm by Mayor Pro Tem Knaus.

Nadine L. Knaus
Mayor Pro Tem

Jim Bower, Chair

ATTEST

Shelley Goodwin, TRMC
City Secretary



City of Garden Ridge

9400 Municipal Parkway
Garden Ridge, Texas 78266-2600
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MINUTES OF CITY WATER COMMISSION REGULAR MEETING November 17, 2014

Members Present:

Chairman Jim Bower
Commissioner David Heier
Commissioner Richard Holloway
Commissioner Jim Kohl
Commissioner Ray Pitzen
Mayor Pro Tem Knaus

Member Absent:

Commissioner Pat Ramirez

City Staff Present:

Nancy Cain, City Administrator
Royce Goddard, Water Department Manager
Shelley Goodwin, City Secretary

1. Call to Order

With a quorum of the City Water Commissioner present, Chairman Bower called the regular meeting of the Garden Ridge City Water Commission to order at 6:00 p.m. on Monday, November 17, 2014, in the City Council Chambers of the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas 78266.

2. Citizen's Participation – 3 minute limit per citizen

No one signed up to speak.

3. Approval of Minutes

a) October 27, 2014 Regular Water Commission Meeting

Motion: A motion was made by Commissioner Holloway, seconded by Commissioner Heier, to approve the minutes of October 27, 2014 Water Commission Meeting, with corrections. The Water Commission voted five (5) for and none (0) opposed. The motion passed unanimously.

4. Business Items

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

d. Water Conservation Public Awareness Program for the City of Garden Ridge

Commissioner Heier reported he reached out to several Homeowner Associations regarding the opportunity to present some water conservation tips. He stated he has not received an invite to do a presentation.

6. Update on actions taken by the City Council in previous City Council Meetings

Nancy Cain, City Administrator stated at the City Council meeting held on November 5, 2014 the City Council approved a letter of support for the Groundwater District be sent to Senator Campbell and Representative Miller.

7. Water Manager Monthly Activity Report

a) Water pumping/usage from city wells

Royce Goddard, Water Manager reviewed the monthly water pumping/usage from the city wells and discussed the water system operations (see attached report).

Royce Goddard, Water Manager reported 23.44 acre feet from the Edwards Aquifer and 28.98 acre ft. from the Trinity. He stated the average daily usage is 555,529.41 gallons.

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

Nothing to report at this time

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

Water Manager Director Royce Goddard reported that the static level was at 195.3 feet.

The Water Commission discussed water loss and leak detection.

d) Water and/or Drought Management

The City of Garden Ridge is currently at Stage 2 Watering Restrictions

8. Adjourn

Motion to adjourn was made by Chairman Holloway and seconded by Commissioner Heier. The motion passed unanimously and the meeting adjourned at 6:45 p.m.

Jim Bower, Chair

ATTEST:

Shelley Goodwin, TRMC
City Secretary

Water Commission
As Of 17 November 2014

	2013						2014					
	Edwards			Trinity			Edwards			Trinity		
	Gallons	Acres	Feet	Gallons	Acres	Feet	Gallons	Acres	Feet	Gallons	Acres	Feet
January	193,000	0.59	53.08	17,104,000	52.49	16,743,000	0	0.00	51.38	16,743,000	51.38	Actual
February	719,000	2.21	68.06	21,458,000	65.85	17,438,000	1,000	0.00	53.52	17,438,000	53.52	Actual
March	4,110,000	12.61	94.53	26,692,000	81.91	20,501,000	567,000	1.74	62.92	20,501,000	62.92	Actual
April	9,909,000	30.41	77.04	15,193,000	46.63	5,793,000	5,793,000	17.78	77.66	25,304,000	77.66	Actual
May	7,721,000	23.69	78.89	17,984,000	55.19	6,107,000	6,107,000	18.74	75.01	24,441,000	75.01	Actual
June	6,332,000	19.43	93.16	24,024,000	73.73	27,186,000	27,186,000	83.43	12.72	4,145,000	12.72	Actual
July	13,417,000	41.18	119.92	25,658,000	78.74	30,026,000	30,026,000	92.15	19.71	6,424,000	19.71	Actual
August	16,315,000	50.07	136.41	28,135,000	86.34	27,471,000	27,471,000	84.31	36.84	12,003,000	36.84	Actual
September	6,103,000	18.73	74.40	18,140,000	55.67	13,424,000	13,424,000	41.20	27.33	8,904,000	27.33	Actual
October	26,000	0.08	53.36	17,363,000	53.29	12,221,000	12,221,000	37.50	33.98	11,074,000	33.98	Actual
November	866,000	2.66	50.20	15,491,000	47.54	7,638,000	7,638,000	23.44	5.54	1,806,000	5.54	11/1-11/17
December	30,000	0.09	46.68	15,180,000	46.59	0	0	0.00	0.00	0	0.00	Actual
TOTAL	65,741,000	201.75	945.71	242,422,000	743.97	130,434,000	130,434,000	400.29	456.60	148,783,000	456.60	856.89
	<i>Total Edwards Allocation 552.567</i>						<i>Total Edwards Allocation 1002.187</i>					
Current Edwards Permits												
Allocated Pumpage	CO00139		484.071	P100-767		2	Lease	BVFD	1/1/14 - 12/31/14		-0.300	Acres Feet
Purchase	BE 001091		2	P100-327		2					1001.890	Acres Feet
Purchase	ME 00417D		1.301	P101-185		3.895					326,466,858.3	Gals
Purchase	ME 004791		3.895	P101-315		2						
Purchase	UV 004371		2	P101-699		4						
Purchase	UV 004611		4	P101-752		2						
Purchase	UV 004781		2	P101-801		2						
Purchase	UV 00537H		2	P101-959		14						
Purchase	UV 005761		14	P102-040		1.76						
Purchase	UV 00630G		1.76	P102-146		62						
Purchase	BE 00081AE		62	P100-200		1						
Transfer	UV00435		1	P106-186		4.5						
Transfer	CO00118B		4.5	P103-312		2						
Transfer	CO00119AA		2	P102-416		0.66						
Transfer	CO00119AA		0.66	P102-564		15						
Lease	CO00129		15	P105-780		400						
Lease	City of Schertz		400									
Total	Edwards		1,002.19	Allocation		1,002.19						

Average usage per connection: 6,125 gals. 1542 Connections
 Average Daily usage: 11/1 - 11/17 555,529.41 gals
 Total Water Loss for 2013: 4,034,060 gals or 12.38 Ac/Ft or 1.31% of 308,163,000 gals or 945.73 Ac/Ft pumped



Engineering Co., P.L.L.C.
CIVIL CONSULTANTS – LAND PLANNERS

TBPE FIRM NO. 13260

December 15, 2014

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

Attn: Nancy Cain

**WATER COMMISSION
AGENDA REQUEST LETTER**

Re: Future Development – 7.13Acre Tract
Nacogdoches Loop Rd.

Mrs. Cain,

Please allow this letter to serve as a formal request to be placed on the Jan. 27, 2015 agenda for the City of Garden Ridge Water Commission meeting. Accompanying this letter is a Master Development Plan to be used as a discussion tool which depicts a 7.13 acre Tract on Nacogdoches Loop Rd to be potentially subdivided into 2 or 3 commercial tracts to be used for light industrial purposes. Please note that the intent of this meeting will be to determine water availability for this overall 7.13 Acre Tract, water main extension funding by the City of Garden Ridge, water rights, easement widths for water main extension onto 7.13 Acre Tract, etc. It is also requested by JKS Engineering Co., P.L.L.C. that the City of Garden Ridge Engineer attends this meeting to aid in discussion of the aforementioned items.

Please let me know if you have any questions or need additional information.

Thanks,

Jeff Smith, P.E.
Manager – JKS Engineering Co., PLLC

- b. Non-Registering Meter: When a meter is found not to register for any period, unless bypassed or tampered with, the Water Department shall assess the minimum water bill charges to the customer for the billing period and will take immediate action to repair or replace the defective meter.
- c. Customer Leaks:
1. First adjustment. The Water Department will adjust, at the customer's request, excess usage on one monthly bill per leak, with proper documentation (i.e. receipts) and inspection of repair by Water Department personnel. The customer will pay the basic minimum charges plus fifty percent (50%) of the remaining dollar amount. The adjustment is allowed once in a twenty-four (24) month period.
 2. Subsequent adjustments. The Water Operations Manager will report to the Water Commission at the next regularly scheduled meeting any subsequent adjustment requests received from any customer in a twenty-four (24) month period from the last adjustment request. All such requests must be made in writing by the customer. The Water Commissioners may recommend to City Council approval for a subsequent adjustment to a water bill. The adjustment will be no more than one half of the water bill minus the basic charges. Adjustment will only be recommended due to circumstances normally beyond the control of the customer such as vandalism or other criminal activity, or acts of nature.
- d. Adjustments for any water bill, for any reason, must be applied for no more than three months from the billing date of the bill in question.

14.08 -- RE-READING OF METERS.

The Water Department will re-read a customer's meter upon request of the customer. If the reading is determined to be in error, the Water Department will make the necessary adjustment. No charge is made for re-reading the meter unless the Water Department determines that there is no basis for such requested re-reading.

SECTION 15 -- CROSS CONNECTION CONTROL

15.01 -- GENERAL POLICY.

a. PURPOSE

- (1) To protect the public potable water supply of the City of Garden Ridge, Texas from the possibility of contamination or pollution by isolating within the customer's internal distribution system(s) or the customer's private water system(s) such contaminants or pollutants that could backflow into the public water system.
- (2) To promote the elimination or control of existing cross connections, actual or potential, between the customer's inplant potable water system(s) and non-potable water systems, plumbing fixtures, and industrial piping systems.
- (3) To provide for the maintenance of a continuing program of cross-connection control that will systematically and effectively prevent the contamination or pollution of all potable water systems.

b. RESPONSIBILITY. The Water System Manager shall be responsible for the protection of the public potable water distribution system from contamination or pollution due to the backflow of contaminants or pollutants through the water service connection. If, in the judgment of said System Manager an approved backflow prevention assembly is required at the customer's water service connection; or, within the customer's private water system for the safety of the water system, the System Manager or his/her designated agent shall give notice in writing to said customer to install such an approved backflow prevention assembly(s) at his/her own expense; and, failure, refusal, or inability on the part of the customer to install, have tested, and maintain said assembly(s) shall constitute grounds for discontinuing water service to the premises until such requirements have been satisfactorily met.

15.02 -- DEFINITIONS.

APPROVAL. Accepted by the authority responsible as meeting an applicable specification stated or cited in this section as suitable for the proposed use.

AUXILIARY WATER SUPPLY. Any water supply on or available to the premises other than the purveyor's approved public water supply. These auxiliary waters may include water from other purveyor's public potable water supply or any natural source(s), such as a well, spring, river, stream, harbor, and so forth; used waters; or industrial fluids. These waters may be contaminated or polluted, or they may be objectionable and constitute an acceptable water source over which the water purveyor does not have sanitary control.

BACKFLOW. The undesirable reversal of flow in a potable water distribution system as a result of a cross connection.

SECTION 35—REBATE PROGRAMS AND WATER CONSERVATION INCENTIVES

35.01 – WASHING MACHINE REBATE

Customers of the Water Department are entitled to one (1) rebate per household to be credited to their water bill for the proof of purchase and installation of a high efficiency washing machine at the household for which the rebate is being applied. The rebate is allowed for existing residences and businesses.

- a. Washing machines eligible for rebate are only those rated in the Tier 3 Level by the Consortium for Energy, Efficiency (CEE). Tier 3 Level washing machines have a Water Factor (WF) of 4.5 gallons of water per cubic foot of laundry.
- b. Amount of rebate – one hundred dollars (\$100.00).

35.02 – ULTRA-LOW FLOW TOILET REBATE

Customers of the Water Department are entitled to rebates for toilets meeting the EPA WaterSense specifications of 1.28 gallons per flush or less. Each customer is allowed a one-time rebate for each toilet replaced in an existing residence or business (based on the number of toilet locations). In order for the rebate to be credited to their water bill the customer must provide proof of purchase and installation of the toilet/s.

- a. Ultra-low flow toilets are toilets that use no more than 1.28 gallons per flush.
- b. Amount of rebate – seventy-five dollars (\$75.00).

35.03 – HOT WATER ON DEMAND SYSTEM REBATE

Customers of the Water Department are entitled to a one (1) rebate per household to be credited to their water bill for the proof of purchase and installation of an approved Hot Water on Demand System at the household for which the rebate is applied. The rebate is allowed for existing residences and businesses.

- | a. Manufacturer | Model |
|------------------------|--|
| Metlund D'Mand Systems | S-50T (PF and R), S-70T (PF and R), S-02T (PF and R) |
| TACO, Inc. | 006-DM, 008-DM, 0011-DM |
| Wirsbo D'Mand Systems | Model 100 and Model 200 |
- b. Amount of rebate – one hundred fifty dollars (\$150.00)

35.04 - RESIDENTIAL IRRIGATION DESIGN REBATE

Customers of the Water Department are entitled to one (1) Residential Irrigation Design rebate per household of up to \$800 (maximum) to be credited to their water bill for the proof of purchase and installation of any combination of options, depending on the number of zones converted or capped, and if the irrigation remains at or below a personalized schedule for water use over a one year period and all rebate requirements as set forth below are complied with. Only existing irrigation systems are eligible for the rebate. All rebates will be applied to customer's water accounts in a series of two installments if the requirements for each installment are met.

- a. Customers will be eligible to receive the first installment of the Residential Irrigation Design Rebate upon completion of the following:
 1. Submission of a licensed irrigator's redesign of a water customer's irrigation system which includes any combination of the Irrigation Design criteria approved by the Water Manager and a personalized schedule for water use over a one year period, and,
 2. The approved irrigation system redesign must be completed in accordance with all city ordinances and state laws governing irrigation system installation and design, and,
 3. The Water Manager will provide the water customer with an approved Residential Irrigation Design Rebate application upon final inspection of the completed irrigation system redesign.
- b. Customers will be eligible to receive the second (final) installment of the Residential Irrigation Design Rebate

If water usage has remained at or below the personalized schedule of water usage over a one year period beginning upon the date of the final inspection.

IRRIGATION DESIGN REBATE CRITERIA

\$450	Disabling entire irrigation system	Removal of the backflow device, backflow box, all valve boxes and the controller. Cutting the “T” connection and capping snugly to the mainline. Removal and capping of an existing zone valve.
\$250	Capping a zone	Area is now hardscape, has been converted to bedding area instead of turf, or plants are mature and do not require regular irrigation.
\$200	Converting a pop-up spray Zone to drip/bubblers	Converting a zone currently irrigated by pop-up spray or rotor irrigation system. Conversion from fixed sprays and rotors to drip system, emitters must not exceed 1 gallon per hour. Drip irrigation must consist of: (1) Half-inch tubing with built-in emitters; or (2) Smaller point-source tubing connected laterally with individual emitters for specific plants. Tubing with laser holes is not eligible for rebate. Fittings should not be the barbed connection fittings but compression fittings that are more secure. System must include: (1) Pop-up head with its nozzle closed or capped and the stem painted a bright color; or (2) Manufactured flag indicator. This will indicate that the zone is working properly. Misters are not allowed. Bubblers must be nonadjustable, fixed flow – not to exceed 1 gallon/minute per head.
\$150	Splitting a zone to beds and turf	Conversion of a single zone that covers both turf and beds to two separate zones for turf and beds.

35.05 – SWIMMING POOL FILTER REPLACEMENT REBATE

Customers of the Water Department are entitled to one (1) Swimming Pool Filter Replacement rebate per household of \$250 to be credited to their water bill for the proof of purchase and installation of a high efficiency cartridge filter system for swimming pools that replace sand and diatomaceous earth (D.E.) filters. The rebate applies only to high-efficiency cartridge filter systems purchased after XXXX 1, 20XX

35.06 WATERSAVER PATIOSCAPE REBATE

Customers of the Water Department are entitled to one (1) WaterSaver Patioscape rebate per household of \$100 to be credited to their water bill with proof of replacing 200 square feet of grass with an approved patioscape when complying with the following requirements:

- a. Capping of irrigation system spray heads/rotors or drip lines in the area where the patioscape is installed.
- b. Rebate is for grass/turf replacement with Patioscape only.
- c. Existing beds and /or patios in existence at the time of passage of this ordinance are not eligible.
- d. Patioscape must be at least 200 contiguous feet.
- e. Patioscape must be at least 10 feet wide and cannot be used to create a pathway/walkway.
- f. Foundation for patioscape must be free of debris and be of a hard packed, pervious sub-soil.
- g. Patioscape must be flagstone, stepping stones or pavers. No other materials can be substituted.
- h. A pre inspection of the patioscape location and post inspection of the patioscape must be conducted by the Water Manager.

36 -- PUBLICATION OF THIS ORDINANCE

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

PASSED AND APPROVED THIS DAY OF _____, 2014.

Nadine L. Knaus, Mayor Pro-tem

ATTEST:

Shelley Goodwin, City Secretary

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.

ORDINANCE NO. 159-092010

AN ORDINANCE ESTABLISHING LANDSCAPE AND IRRIGATION SYSTEM REQUIREMENTS FOR RESIDENTIAL AND COMMERCIAL PROPERTIES IN THE CITY OF GARDEN RIDGE FOR THE PURPOSE OF WATER CONSERVATION; PROVIDING FOR VARIANCES AND PROVIDING A PENALTY FOR VIOLATION OF SAID ORDINANCE

WHEREAS, the City of Garden Ridge is a growing community with limited water sources; and

WHEREAS, one water source from which the city pumps water from is legislatively regulated and therefore over pumping from the water source can result in significant fines and levies; and,

WHEREAS, due to weather conditions in south Texas droughts are common and can result in mandatory drought and water conservation restrictions and rules which limit the amount and times at which water can be used by residents and businesses in the city; and

WHEREAS, lot sizes in Garden Ridge are a minimum of $\frac{3}{4}$ acres and landscape and sprinkler systems consume approximately 50% or more of the water metered at residences and businesses in the city and therefore the city has determined that there are means by which this type of water usage can be reduced; and,

WHEREAS, implementing water conservation standards for landscaping and irrigation systems are necessary to preserve and protect the health and safety of the city's residents to ensure an ample water supply for the City of Garden Ridge.

NOW THEREFORE BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF GARDEN RIDGE, TEXAS:

Section 1. Definitions.

Groundcover vegetation – means perennial vegetation that spreads along the ground that is adaptive to traffic and requires minimal maintenance and irrigation

Irrigation system - an underground or above ground system of pipes, fittings and sprinkler heads which when in operation dispenses water onto lawns and landscape

Natural state – means an area or areas of a property on which trees, grasses and other vegetation which are native to the area have remained in their natural state

State licensed irrigator – an individual licensed by the State of Texas to design, install and service irrigation systems

Summer Dormancy – means the ability of turf grass to survive without water for a period of sixty consecutive days during the months of May through September

Turf grass - means perennial grasses that are adapted to regular mowing and traffic through management

Variance - means an exception to any provisions of this ordinance

Xeriscape – a landscape consisting of a maximum of fifty percent turf grass, with the remaining percentage of landscape incorporating low water use plants and/or pervious hardscape

Section 2. Drought Tolerant Grasses and Ground Cover.

- a) All lawns for new residential and commercial properties and developments must be planted with drought tolerant grasses or other drought tolerant ground cover vegetation that has a period of summer dormancy of sixty consecutive days without water during the months of May through September.

Drought Tolerant Lawn Grasses are limited to:

St. Augustine varieties: Floratam variety only

Bermuda varieties: Celebration
GN1
Tex Turf
Tifway 419
Common
Grimes EXP
Tif Sport

Buffalo varieties: All varieties

Zoysia varieties: El Toro
Empire
Jamur
Palisades

No more than 50% 13,068 square feet of the pervious ground cover can be grass irrigated.

~~As guidance turf grass proportion to lot size is limited to:~~

~~¾ acre lot = 32,670 square feet 50% pervious ground cover = 16,335 square feet~~

~~1 acre lot = 43,560 square feet 50% pervious ground cover = 21,780 square feet~~

~~1.25 acre lot = 54,450 square feet 50% pervious ground cover = 27,225 square feet~~

- b) Existing residential and commercial properties may restore damaged turf. Turf damage not exceeding 50% of the lawn area may be replaced with the same turf

existing prior to damage. Turf damage exceeding 50% of the lawn area must be replanted with acceptable drought tolerant grass as listed in Section 2(a) above. Lawn area does not include any area or areas on a property which have been allowed to remain in its native state.

Section 3. Xeriscape Landscape.

- a) New residential and commercial properties and developments must use xeriscape landscaping on all areas of the yard that are not planted in turf. Builders and developers are restricted to offering Xeriscape landscape plans which meet this ordinance. All new residential and commercial developments must incorporate xeriscape landscape requirements into subdivision covenants. Lawn area does not include any area or areas on a property which have been allowed to remain in its native state.
- b) Replacement landscaping on existing residential and commercial properties must incorporate xeriscape landscaping consistent with this ordinance.

Section 4. Irrigation Systems.

- a) A state licensed irrigator must submit a *to scale* (1" = 30') detailed plan and schematic of an irrigation system (including any new system, the refurbishing of any existing system, and any extension of any existing system **greater than 50% of the original system**) to be installed within the city to the City Water Department for approval and permitting prior to beginning installation. *Plans must be drawn in ink (not pencil).*
- b) *The plan must be designed according to Title 30, Part 1, Chapter 344, Landscape Irrigation, Subchapter F and include complete coverage of the area to be irrigated.*

~~All new and refurbished sprinkler systems must have rain sensors installed on the system~~

- c) *The irrigation plan must include, at a minimum the following information:*
 - (1) *Irrigator's seal, signature and date of signing*
 - (2) *All major physical features and the boundaries of the area(s) to be watered*
 - (3) *A North arrow*
 - (4) *A legend*
 - (5) *The zone flow measurement for each zone*
 - (6) *Location and type of*
 - a. *Controller*
 - b. *Sensor (for example, but not limited to rain, moisture, wind, flow or freeze>*
 - (7) *Location, type and size of each*

- a. *Water source, such as but not limited to, a water meter and point(s) of connection*
- b. *Backflow prevention device*
 - i. *Must be a minimum of 1" or size of meter if larger*
- c. *Water emission device including, but not limited to, spray heads, rotary sprinkler heads, quick-couplers, bubblers, drip or micro sprays*
- d. *Valves including, but not limited to zone valves, master valves and isolation valves*
- e. *Pressure regulation component*
 - i. *Must be same size as meter and **rated for 15 – 150 psi** (not 25 – 75 psi)*
- f. *Main line and lateral piping*

(8) *The scale used*

(9) *The design pressure, which cannot exceed manufacturer's recommendation*

- d) The design of all new, refurbished or extensions of existing sprinkler systems should include water conservation features, such as sprinkler heads which emit large drops of water rather than a fine mist, the use of drip irrigation where possible and sprinkler system layouts that limit the impact of wind.
- e) Irrigation systems must comply with any and all other requirements for such systems as regulated through City of Garden Ridge Ordinance numbers 19, 54 and 61.
- f) *Completion of Irrigation System*
 - (1) *Upon completion of the irrigation system, there must be a final inspection with the installer, the City Water Department and, if possible, the home owner.*
 - (2) *The City is to be furnished a copy of the final plan, noting any changes, if any, from the original plan submitted.*

Section 5, Gray Water Recycling Systems for Irrigation.

A Gray Water Recycling System MUST be installed per the International Plumbing Code and Title 30, Part 1, Chapter 285, On-Site Sewage Facilities, Subchapter H, Disposal of Gray Water, Subparagraphs 285.80 & 285.81

Section 6. Variance.

A variance to the ordinance is available to any person or entity if they can demonstrate to the City of Garden Ridge City Council after recommendation from the City Water Commission that they possess an alternative plan and seek permitting for an alternative plan that does not meet the specifications of this ordinance but does have the same conservation impact to the property in question. The determination of what constitutes "the same conservation impact to the property in question" shall be in the sole discretion of the governing body and their determination shall be legislative in nature and final. Such determination of a variance shall be based on the information provided to the

