



City of Garden Ridge

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

AGENDA CITY WATER COMMISSION MEETING

Tuesday, February 24, 2015 at 6:00 P.M.

The Garden Ridge City Water Commission will meet in a regular session on Tuesday, February 24, 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, February 20, 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. January 27, 2015 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. Possible amendments to Ordinance 54, Section 35 Rebate Programs and Water Conservation Incentives
 - b. 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
 - c. Update on status on reopening of Trinity well #2
 - d. 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.


Shelley Goodwin
City Secretary

This is to certify that I, Shelley Goodwin, posted this Agenda at 10:00 a.m. on February 20, 2015 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
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MINUTES OF CITY WATER COMMISSION REGULAR MEETING January 27, 2015

Members Present:

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

Member Absent:

Commissioner Jim Kohl

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 Tuesday, January 27, 2015 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 Special Joint Water Commission and City Council Meeting

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

b) November 17, 2014 Rescheduled Regular Water Commission Meeting

Motion: A motion was made by Commissioner Holloway, seconded by Commissioner Heier, to approve the minutes of November 17, 2014 Rescheduled Regular Water Commission Meeting.

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:

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.

Jeff Smith, JKS Engineering, stated he is the engineer for the Winco development. He stated the 7.13 acre tract is located on Nacogdoches Loop Road and potentially be subdivided into 2 or 3 light industrial tracts. He inquired to the water availability and water extension to be funded by the City of Garden Ridge.

The Water Commission discussed water wells, water availability and the cost of developing water extension.

Mr. Smith also informed the Water Commission that Winco has 4 acres feet of water rights and they would be willing to talk about an exchange if the City is willing to bring the water line to their property.

Mayor Pro Tem Knaus suggested that this item be brought back after a meeting with Winco occurs.

b. Possible amendments to Ordinance 54, Section 14.07 c. Customer Leaks

Jim Bower, Commission Chair, stated he requested this item after a situation occurred regarding a water customer's leak who had been a conservative water user.

The Water Commission discussed the situation and felt that the City Council is allowed to make their own decisions regardless of the recommendations they provide.

The Water Commission agreed by consensus to leave Ordinance 54, Section 14.07 c. Customer Leaks as is.

c. Possible amendments to Ordinance 54, Section 35 Rebate Programs and Water Conservation Incentives

Pat Ramirez, Commissioner, stated these incentives were the see the Commission had previously worked on and have been added to Section 35.

Motion: A motion was made by Commissioner Holloway, seconded by Commissioner Heier, to recommend to the City Council approval of the amendments to Ordinance 54, Section 35 Rebate Programs and have the City Council determine the effective date. The Water Commission voted five (5) for and none (0) opposed. The motion passed unanimously.

d. Possible amendments Ordinance 61, 404 Water Rate Surcharges

Royce Goddard, Water Manager, stated Ordinance 61 needs to be amended to reflect Water Manager.

Ray Pitzen, Commissioner, reported Mayor Pro Tem Knaus was reviewing Ordinance 61 to bring in compliance with the law.

The Commission consensus was to bringing Ordinance 61 back with Mayor Pro Tem Knaus' rewrites.

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.

Royce Goddard, Water Manager, stated the changes he made are in red.

The Water Commission discussed the proposed changes. The also discussed homeowners doing their own irrigation systems and harvesting rain water or grey water. The Water Commission recommended the possible amendments to Ordinance 159 be brought back once the wording is revised concerning irrigation systems installed by the property owners and Gray Water recycling.

f. Update on status on reopening of Trinity Well #2.

Royce Goddard, Water Manager, stated the bid for additional modifications has been awarded and they are currently in the process of signing the contract

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

There was nothing to report on this item.

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 January 7, 2015 the City Council awarded the modification for the Trinity Well #2 bid.

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 7.68 acre feet from the Edwards Aquifer and 27.32 acre ft. from the Trinity have been pumped. He stated the average daily usage is 422,407,400 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 194.4 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 Ramirez. The motion passed unanimously and the meeting adjourned at 6:55 p.m.

Jim Bower, Chair

ATTEST:

Shelley Goodwin, TRMC
City Secretary

Water Commission
As Of 27 January 2015

	2014						2015							
	Edwards		Trinity		Total	Quarterly	Edwards		Trinity		Total	Quarterly		
	Gallons	Acre Feet	Gallons	Acre Feet	Acre Feet	Acre Feet	Gallons	Acre Feet	Gallons	Acre Feet	Acre Feet	Acre Feet		
January	0	0.00	16,743,000	51.38	51.38		2,504,000	7.68	8,901,000	27.32	35.00		1/1 - 1/27	
February	1,000	0.00	17,438,000	53.52	53.52		0	0.00	0	0.00	0.00		Actual	
March	567,000	1.74	20,501,000	62.92	64.66	169.56	0	0.00	0	0.00	0.00	35.00	Actual	
April	5,793,000	17.78	25,304,000	77.66	95.43		0	0.00	0	0.00	0.00		Actual	
May	6,107,000	18.74	24,441,000	75.01	93.75		0	0.00	0	0.00	0.00		Actual	
June	27,186,000	83.43	4,145,000	12.72	96.15	285.33	0	0.00	0	0.00	0.00	0.00	Actual	
July	30,026,000	92.15	6,424,000	19.71	111.86		0	0.00	0	0.00	0.00		Actual	
August	27,471,000	84.31	12,003,000	36.84	121.14		0	0.00	0	0.00	0.00		Actual	
September	19,419,000	59.59	8,904,000	27.33	86.92	319.92	0	0.00	0	0.00	0.00	0.00	Actual	
October	13,667,000	41.94	14,646,000	44.95	86.89		0	0.00	0	0.00	0.00		Actual	
November	14,967,000	45.93	1,806,000	5.54	51.47		0	0.00	0	0.00	0.00		Actual	
December	16,152,000	49.57	332,000	1.02	50.59	188.95	0	0.00	0	0.00	0.00	0.00	Actual	
TOTAL	161,356,000	495.18	152,687,000	468.58	963.76		2,504,000	7.68	8,901,000	27.32	35.00			
	EAA Stage 3, - 35%, Available 630.14 A/F, Unused 134.96 A/F						EAA Stage 3, - 35%, Available 651.23 A/F, Unused 643.55 A/F						1,001.89	
Current Edwards Permits														
Allocated Pumpage		CO00139	P100-767	484.071	Acre Feet		Lease	BVFD	1/1/15 - 12/31/15		-0.300		Acre Feet	
Purchase		BE 00109I	P100-327	2	Acre Feet		Total Available Edwards Water					1001.890	Acre Feet	
Purchase		ME 00417D	P101-185	1.301	Acre Feet								326,466,858.3	Gals
Purchase		ME 00479I	P101-315	3.895	Acre Feet		Trinity Static Level: 194.4' Pumping Level: 116.2'							
Purchase		UV 00437I	P101-699	2	Acre Feet		Connections: 1542 Avg. usage per connection: 7,396.239 gals							
Purchase		UV 00461I	P101-752	4	Acre Feet		Avg. Daily Usage: 01/01 - 01/27 : 422,407.400 gals							
Purchase		UV 00478I	P101-801	2	Acre Feet		Avg. connections 2014: 1532 Avg. usage per connection for 2014: 204,988.903 gals							
Purchase		UV 00537H	P101-959	2	Acre Feet									
Purchase		UV 00576I	P102-040	14	Acre Feet									
Purchase		UV 00630G	P102-146	1.76	Acre Feet									
Purchase		BE 00081AE	P100-200	62	Acre Feet									
Transfer	K. Zar Pool	UV00435	P106-186	1	Acre Foot									
Transfer		CO00118B	P103-312	4.5	Acre Feet									
Transfer		CO00119AA	P102-416	2	Acre Feet									
Transfer		CO00119AA	P102-564	0.66	Acre Feet									
Lease		CO00129	P105-780	15	Acre Feet									
Lease	City of Schertz			400	Acre Feet									
Total	Edwards	Allocation		1,002.19		Acre Feet								

**SIGN IN TO SPEAK AT THE JANUARY 27, 2015
WATER COMMISSION REGULAR MEETING**

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- c. Limit remarks to three (3) minutes.

Disclaimer:

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NAME

ADDRESS

SUBJECT

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

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) *Irrigation systems installed by property owner*
- (1) *Owner **must** comply with Title 30, Part 1, Chapter 344, Subchapter C, Paragraph (h), and this ordinance.*
 - (2) *Connection of irrigation system to water supply **must** be done by a licensed Irrigator and backflow device must be inspected by a licensed backflow tester.*
- g) *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. Rainwater Harvesting

Rainwater harvesting should follow the guidelines in The Texas Manual on Rainwater Harvesting by the Texas Water Development Board, 3rd Edition 2005

Section 7. 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 Council at the time of the requested variance. All such materials must be provided to the City at least 30 days prior to any requested action by the Commission, and after Commission action, shall be set for City Council consideration at its next meeting. If supplemental information is presented, such application for variance must return to the Commission for action, prior to Council Action.

Section 8. Penalty.

A violation of this ordinance by act, or omission, including the failure to comply with any requirement of this Ordinance shall be considered a Class C misdemeanor and the municipal court shall have jurisdiction over such offense. Any person, firm, or corporation violating any provision of this ordinance shall be fined not less than one-hundred dollars (\$100) and not more than five-hundred dollars (\$500.00) for each offense. Each day such act or omission occurs, and each section of the ordinance violated constitutes a separate and independent offense.

In addition to misdemeanor prosecution, the City may seek civil penalties pursuant to Chapter 54 of the Texas Local Government Code for any violation and obtain injunction, attorney’s fees, costs of court and civil penalties of up to either \$1,000 per day or \$5,000 per day as provided by State Law. Civil penalties are cumulative to criminal penalties.

Section 9. 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 10. Effective Date

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

PASSED AND APPROVED THIS DAY OF 2015.

Nadine L. Knaus, Mayor Pro tem

ATTEST:

Shelley Goodwin, TRMC
City Secretary

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.