



Agenda

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SANTA FE WATER CONSERVATION COMMITTEE MEETING
CITY HALL - 200 LINCOLN AVE.
CITY COUNCILORS' CONFERENCE ROOM
TUESDAY, MARCH 11, 2014
4:00 PM TO 6:00 PM

1. CALL TO ORDER
2. ROLL CALL
3. APPROVAL OF AGENDA
4. APPROVAL OF CONSENT AGENDA
5. APPROVAL OF MINUTES FEBRUARY 11, 2014 WATER CONSERVATION COMMITTEE MEETING
6. CONSENT AGENDA
 - A. STATUS UPDATE ON WATER CONSERVATION EDUCATION & OUTREACH (Laurie Trevizo)
 - B. A SEASONAL REMINDER: REVIEW OF EMERGENCY STAGES AND TRIGGERS (Laurie Trevizo)

DISCUSSION ITEMS:

7. DROUGHT, MONSOON AND WATER RESOURCE MANAGEMENT UPDATE (Rick Carpenter, 15 minutes)
8. LEGISLATIVE UPDATE (Councilor Ives, 15 minutes)

INFORMATIONAL ITEMS:

9. DEBRIEF 2014 LAND & WATER SUMMIT (XERISCAPE CONFERENCE) (Melissa McDonald, 10 minutes)
10. REBATE ANALYSIS (Doug Pushard, 10 minutes)
11. GROUP REPORTS FROM WATER CONSERVATION COMMITTEE INITIATIVES: (Councilor Ives 60 minutes)
 - A. GROUP #1 – WATER CONSERVATION & DROUGHT MANAGEMENT PLAN UPDATE (12 minutes)
 - B. GROUP #2- WATER CONSERVATION EDUCATION/OUTREACH (12 minutes)
 - C. GROUP #3- WATER CONSERVATION CODES, ORDINANCES & REGULATIONS (12 minutes)
 - D. GROUP #4- REESTABLISH TREND OF NET ANNUAL REDUCTIONS IN PER CAPITA WATER USAGE AND IDENTIFYING LARGE WATER USERS (12 minutes)
 - E. GROUP #5- DOMESTIC WELLS WITHIN THE CITY LIMITS (12 minutes)

MATTERS FROM STAFF:

12. UPCOMING MEETINGS/ CONFERENCES (Laurie Trevizo, 5 minutes)

MATTERS FROM COMMITTEE:

NEXT MEETING – TUESDAY, APRIL 8, 2014:

CAPTIONS: MARCH 26, 2014 @3 pm PACKET MATERIAL: MARCH 28, 2014 @3 pm

ADJOURN.

Persons with disabilities in need of accommodations, contact the City Clerk's office at 955-6520, five (5) working days prior to meeting date.

CITY OF SANTA FE

SANTA FE WATER CONSERVATION COMMITTEE

MINUTES – February 11, 2014

Frances Lucero, Stenographer

2/11/2014

DRAFT UNTIL APPROVED

SANTA FE WATER CONSERVATION COMMITTEE MEETING
TUESDAY, FEBRUARY 11, 2014
4:00 PM TO 6:00 PM

MINUTES

1. CALL TO ORDER

The meeting was called to order by the Chair, Councilor Peter Ives at 4:00 pm in the City Councilor's Conference Room, Santa Fe, New Mexico.

2. ROLL CALL

Present

Councilor Peter Ives, Chair
Melissa McDonald
Nancy Avedisian
Doug Pushard
Tim Michael
Giselle Piburn
Stephen Wiman
Bill Roth
Karyn Schmitt
Lisa Randall

Not Present

Grace Perez, Excused

Others Present

Laurie Trevizo, Water Conservation Manager
Caryn Grosse, Water Conservation Specialist
Rick Carpenter, Water Division
Anna Serrano for Fran Lucero, Stenographer

3. APPROVAL OF AGENDA

Ms. Randall moved to approve the Agenda as presented, second by Mr. Schmitt, motion carried by unanimous voice vote.

4. APPROVAL OF CONSENT AGENDA

No action.

5. APPROVAL OF MINUTES JANUARY 14, 2014 WATER CONSERVATION COMMITTEE MEETING

Corrections:

Note that Robert Wood was present at the January meeting.

Page 6 – 2nd paragraph, 9th sentence: ~~produce~~ use

Mr. Pushard moved to approve the minutes of January 14, 2014 as amended, second by Mr. Michael, motion carried by unanimous voice vote.

6. CONSENT AGENDA

A. DROUGHT, MONSOON AND WATER RESOURCE MANAGEMENT UPDATE (Rick Carpenter)
(Report included in packet)

Mr. Carpenter stated that his memo dated January 6, 2014 reported that Herron reservoir was at an all time low of 35% and it is now down to approximately 29%. Shortly after that Mr. Carpenter attended a meeting at the Bureau of Reclamation where they projected the runoff forecast. Mr. Carpenter said that he was surprised at how optimistic they are. Mr. Carpenter believes that they will revise their numbers downward in March from what they have. He believes there will be a serious curtailment in deliveries from the San Juan Chama project this year, estimating 75% of normal. There is still 65% of reservoir at Nichols and McClure. Between what they do get from the San Juan Chama project and the water that is stored plus the water in the reservoirs they should be in fairly good shape; depending on how long the drought lasts.

Mr. Pushard asked if a date has been set for the March meeting and Mr. Carpenter responded that a date has not been set. There are concerns that we will have another fire season in the spring due to the hot, dry and windy season. Mr. Carpenter reiterated that he has hopes they will get water from the San Juan Chama project and with use of the stored water in Abiquiu they could reach 100% this year. It is anticipated that Wild Earth Guardians may intend to sue.

Mr. Wiman asked if WCC could have someone give an update on the model to include climate change data. Mr. Carpenter said that one of the new hires has success and interest in working on that. The new hires were supposed to be at today's meeting; they are William Snyder from the private sector and Andrew Erdmann from the State Engineers office. The two will bring a combined comprehensive skill set. Mr. Carpenter said that as they progress in working with the data for this model they will bring more information to the committee.

Councilor Ives asked; in terms of Texas and New Mexico, related to the 65% capacity in city reservoirs, how many acre feet does that represent and what is the status of that litigation. Mr. Carpenter said that it is a little over 2500 ac. ft., 79 ac. ft of that are pre-compact water rights. They are subject to Article VII. They have had one meeting and they have another one scheduled with the Interstate Stream Commission in the very near future.

Mr. Michael asked for a status on the long range water plan that Claudia Borchert was working on, what is the expected status of a draft on that report. Mr. Carpenter said this is a living report; this report is being worked on. It is an on-going process. The update she worked on was the climate change and work continues.

DISCUSSION ITEMS:

None

INFORMATIONAL ITEMS:

7. GROUP REPORTS FROM WATER CONSERVATION COMMITTEE INITIATIVES: (Councilor Ives 75 minutes)

A. GROUP #1 — WATER CONSERVATION & DROUGHT MANAGEMENT PLAN UPDATE (15 minutes)
(Report included in packet)

Reference was made to the report in the packet where the working groups were asked to identify what they considered their 5 highest priority programs for the short (1-3 years) or longer (3 – 5 years) term. It was explained that these can be new projects or new enhancements to current ones. The working group would like to put a new chapter; some of the chapters might be in the public document, most of them will probably be in the appendices. It is important to capture what the working group thinking is and what they would like to accomplish. These are not commitments from the working group but more

so ideas that are being worked on. Group 1 is interested in receiving at a minimum the top of 5. It is important to have all working groups represented. Working Group 1 will get together when they have all 5 chapters ready to review. It was reiterated that the priorities be sent in order to bring the list to the next WCC meeting for review.

Chair Ives asked in terms of timing what is projected knowing that there is a 2015 deadline. Ms. Trevizo stated that she believes it will come to this committee in March for review. Some of the reasons why staff has been mulling around with the organization of this plan are that the OSE has put out a new planning guide book and a template on how to do a Water Conservation Plan. Ms. Trevizo stated that she has been trying to marry the two in the sense that they have clear guidelines on how they would like to see it. It is done from the perspective if you have never done a plan before, you need to do the leg work and incorporate it in to the plan. Ms. Trevizo stated that a lot of that has already been done. Some of the organization may be a little different than from when it was first discussed; in conversations with the state they have also had turnover in the Conservation Bureau. Ms. Trevizo will send the link to the committee from the OSE for the guidelines. Please note that it is a template to provide a working sample.

B. GROUP #2 —WATER CONSERVATION EDUCATION/OUTREACH (15 minutes)

Mr. Wiman stated that they have not had a presentation since the Architects meeting in January. The next scheduled presentation is March 6th which will be a brown bag luncheon at Santa Fe Association of Realtors. Mr. Wiman said that if there is interest in being a presenter to please attend this meeting to hear the questions that are asked. A list of frequently asked questions has been distributed at prior meetings and Mr. Wiman is happy to send again. Ms. Avedisian has made the arrangements for this meeting. The hopes were to give a presentation to all of the Mayoral candidates but it did not materialize. As a group, a letter was sent out to the candidates saying that if they wanted the Water Conservation Committee would send them the presentation to review. Bill Roth said that he will provide this information to the Home Builders Association. He would like to get them on record. Mr. Wiman commends the Home Builders Association, they are a captive audience.

Chair Ives noted that the election for Mayor is March 4, 2014. Mr. Pushard suggested dates in February, possibly the 20th or the 21st. Chair Ives suggested February 19th. Chair Ives will send out the invitation to the Mayoral candidates for the presentation.

C. GROUP #3 — WATER CONSERVATION CODES, ORDINANCES & REGULATIONS (15 minutes)

Mr. Pushard provided a verbal report. The big issue is the water rating system. They have added another member to the working group, Amanda from the Santa Fe Community College (SFCC). The first action item at the most recent meeting is to come up with the input for the rating system. The working group agreed on the framework and where they will be coming from. The next meeting will be Thursday or Friday of the coming week to draft out the inputs, not how they rank. The hopes are to bring a draft by the March meeting for review. The plan was to get someone from SFCC for the input; also someone has been identified from Green Build Coalition that will team up to try to build the model. The meeting was very spirited on what is going to be input. Realistically it will probably take 2-3 months to come up with a final list that the working group feels good about. Topics are direct water use vs. indirect water use, planting trees vs. not planting trees. Some could argue saving water and some would argue not saving water. The addition of Amanda to the team will add a lot of spirit to the conversation, she will actually engage in many of the questions that need to be engaged in before they get too far down the path. One of the issues is outdoor water use. Right now the discussion is on the path of using square footage of watt and estimate outdoor water use

based on that. It would be creating an outdoor water budget based on lot size. Feedback is welcomed.

Mr. Roth stated that he was at the International Builders Show and spoke with Green Builder Coalition which is a nationwide organization which was established by a gentleman named Ron Jones. In talking to him about this he referred to their technical director; she is an Architect and all sorts of LEAD certifications. They questioned why someone hasn't done this before. There was a presentation from EPA Water Sense; they have a whole budget dedicated to plant types.

Ms. McDonald asked for clarification on the relationship between the city and the committee that is being set up.

Chair Ives stated that the effort is to come up with a relatively simple, critical, evaluative tool that people can use to assess water conservation and use based upon factors that are relevant in our regional area. We want to target people and inform them of water use and create a mechanism to engage people directly.

Mr. Roth stated that in conversations with Ms. Mortimer they are working on revising the code. The city has done a fairly good job with energy so the next big target is water. The city code has been rather lenient and lax on water use. The thought is for this to become part of the tool we use as the energy component in a building permit. Down the way we would like to see this as the water component with the idea if it is a point based system as it is now, you can start driving down water use.

Ms. McDonald stated that this is a good idea but she wants to set up as it is undefined at this point; when we start talking about attributing points to be aware that there are several of these systems being developed in the state. We don't want to lock ourselves in.

Mr. Roth stated that there are many energy rating systems and what has happened nationwide is that it is the only _____ approved standard, it has become the defacto standard. It is part of building codes around the country; it has become part of the 2015 Green Building Code. My idea is to have both a prescriptive and performance based.

Further discussions will take place with Ms. Kathryn Mortimer and Ms. McDonald and Mr. Roth for a better understanding.

Mr. Pushard asked the committee if they learn or know of other models to please provide them to the working group and it will be brought back to the committee for review.

D. GROUP #4 — REESTABLISH TREND OF NET ANNUAL REDUCTIONS IN PER CAPITA WATER USAGE AND IDENTIFYING LARGE WATER USERS (15 minutes)

Ms. McDonald referred to Group #4 report included in packet. The group has been following the legislative work with Senator Peter Wirth. They have been following SB16 which is a program for tax credits for rain water harvesting which gives a rebate up to \$5,000 or 20% of the cost of a system. The bill will be heard on February 12th at 2:00 pm at the State Corporation and Transportation Committee. OSE did bring up some concerns; how do you monitor it, how do you track it. The working group is still watching how Austin does it. The City and County are in good shape and they have a good process in place. Committee assignments are also listed. Park numbers have been received and the committee is also working on this process. A phone call has been received from Kim Kelly from the Sustainable Santa Fe Commission inquiring about green water rebates. Ms. McDonald suggested that she attend a working group meeting and Ms. Trevizo is also going to attend a meeting of the Sustainable Santa Fe

Commission. Ms. McDonald stated that she likes that there is a cross pollination between committees.

Ms. Schmitt made reference to a recent article in the Albuquerque Journal on the water meters. (Ms. Schmitt will send to Ms Trevizo for distribution). Ms. Schmitt noted that the RFP from the city of Santa Fe has come out. Ms. Trevizo stated that the posting has closed and she will send Ms. Schmitt a copy for review.

Ms. McDonald asked if the bids are open to the public.

Ms. Trevizo said that they are proprietary and are for the review committee only.

Ms. Schmitt asked if there was a timeline set.

Ms. Trevizo answered that there are 5 members on the review committee and she is one of those members. She has read through 50% of the proposals. A meeting is scheduled on Friday, 2/14/14 to make the first cut. Ms. Trevizo will keep the WCC informed and she is a strong advocate of the needs expressed from the WCC.

Chair Ives informed the WCC that Lisa Martinez is the new IT Division Director. The Chair asked that she be kept in the loop on this RFP in particular.

Mr. Roth asked; what is the timeline for any new system going in to effect?

Ms. Trevizo said it normally takes five years as a phased in plan.

Mr. Pushard expressed his thanks to Ms. Trevizo for being on the committee and reiterated their trust in Ms. Trevizo's knowledge of the WCCs objectives are on this subject. On the billing system, one thing Mr. Pushard stated he is not clear on – he would like to see in the billing system an open architecture so third parties can actually plug in to our billing system so our customers can see real time water use and compare to other places.

Ms. Trevizo stated that she did not recall that this was part of the bid. There are portals set up for people to have access to their data and from what Ms. Trevizo understands; there is a possibility to do this in a zip code format. You cannot plug in an address; it does not have that capability. It will do a query; it will compile and provide the data. Ms. Trevizo said that we are light years ahead compared to other municipalities.

Mr. Pushard said that from the billing side it sounds like a selection has been made of a vendor; is it possible to get a presentation.

Ms. Trevizo said that training was done today with the CSRs; they are going through different scenarios on what it can do and not do. They are going back to beta testing and the city will go through an intensive training. We are talking about 6-7 weeks between each interim.

Chair Ives stated that when this is all decided Ms. Trevizo can schedule someone to come in and present to the WCC.

Ms. Trevizo said that if the committee has specific questions to please send them to her. She asked the WCC to keep in mind that this is not her project; she is a member of the review committee.

Mr. Pushard will send an e-mail to Ms. Trevizo with the question; is there an API access to the billing data.

E. GROUP #5 — DOMESTIC WELLS WITHIN THE CITY LIMITS (15 minutes)

It was reported that the working group has not been able to get an appointment with Marcos Martinez from the City Attorney's office and asked Chair Ives if he could intervene and secure some dates that they could meet with Mr. Martinez. Much of the work that is being done is at a halt until the meeting is held. It is the wishes of the working group to have Peter Balue at the meeting; he knows a lot about the city regulations.

Ms. Schmitt reported that she was at the Conservation Water Review committee where they were talking about the Acequia rights and severe situations. This is an area we should follow up on.

8. REBATE ANALYSIS (Doug Pushard 45 minutes)

Mr. Michaels provided (34 page) final draft. It does not include an appendices; it does include an Executive Summary and Overview which details the purpose. Mr. Michael's said that one question is how the rebate program compares as far as saving water compared to other things that the city is doing which is water rates, building codes, etc., this does not answer that question. Mr., Michaels stated that if it helps in any way to accomplish this objective, which is to improve the existing program, we will have accomplished something.

Thank you to Ms. Grosse and Ms. Trevizo for their data compilation, review and assistance. Mr. Pushard said that it is safe to say that the rebate program has saved water. When you look at the number of devices that have been installed and the average lifetime; the rebate program has saved water. Not only has it saved water, it has saved water at a lower cost then what it would have cost to produce that water. Hopefully the life of the devices will go on producing savings.

Mr. Pushard and Mr. Michaels would like to propose a new concept in looking at rebates, working with Ms. Trevizo to look at it from the customer perspective as well as the city perspective. If you look at it from the city perspective we have been successful. If you look at it from a customer perspective you can almost predict which rebates are going to work and which ones are not going to work based on the net cost to the customer. There is no research that has ever been done on rebates. The takeaway is that the working group has good predictors, not 100%. When looking at the rebate itself, it doesn't always mean that it will have success but on the other hand there is leading interest in technology. Santa Fe has not given tons of rain barrel rebates but there are thousands of rain barrels.

Mr. Koch asked vs. what the cost of the city is to issue a rebate, what is the best bang for the buck.

Mr. Michaels: Washing Machines

Mr. Pushard said that both commercial and residential customers are interested in the pay back. For commercial they look at it from an on-going savings.

Chair Ives asked that the WCC members provide feedback to the working group on this draft.

MATTERS FROM STAFF:

MATTERS FROM COMMITTEE:

Conveyed in group reports.

NEXT MEETING – TUESDAY, MARCH 11, 2014:

CAPTIONS: FEBRUARY 26, 2014 @3 pm

PACKET MATERIAL: FEBRUARY 28, 2014 @3 pm

ADJOURN

There being no further business to come before the Water Conservation Committee, the Chair called for adjournment at 6:00 pm.

SIGNATURE SHEET

Councilor Peter Ives, Chair

Fran Lucero, Stenographer

City of Santa Fe, New Mexico

memo

Date: February 25, 2014

To: Water Conservation Committee

From: Laurie Trevizo, Water Conservation Manager

Via: Rick Carpenter, Water Resources and Conservation Manager
Nick Schiavo, Public Utilities Department and Water Division Director

RE: Update on Water Conservation Office Spring 2014 Events

The City of Santa Fe Water Conservation Office has a number of upcoming events this spring that provide education and outreach opportunities to a variety of audiences.

Fix A Leak Week:
March 17-21, 2014

The Bad Flapper returns! This is the City of Santa Fe's fourth year to participate in the national event sponsored by the US EPA WaterSense Program. Fixing a leaky toilet can save up to 1,000 gallons of water every month. The number one cause of a leaky toilet is a faulty flapper. This inexpensive rubber part decays or get covered with mineral deposits and can cause leaks, which are often silent, hence the hunt for the silent-movie roaring 20's villain.

QWEL (Qualified Water Efficient Landscaper) Training:
Registration deadline: March 11, 2014
Training: March 18-19, 25-27, 2014

The City of Santa Fe and the New Mexico Water Conservation Alliance will be co-sponsoring Qualified Water Efficient Landscaper (QWEL) training in March. QWEL is an approved U.S. EPA WaterSense Irrigation Auditor certification program. Landscape professionals who achieve and maintain QWEL certification and have a current City of Santa Fe business license become approved contractors for the City of Santa Fe Water Conservation Irrigation Efficiency Rebate Program. Training is limited to 25 participants. The application is available on the website: www.santafenm.gov/educational_programs. In addition, information about the program has been disseminated by press releases, flyers provided to irrigation parts vendors, and letters and/or emails to landscaping companies.

11th Annual Children's Poster Contest:
Judging: January 2014
Presentation of Awards: End of March 2014

The theme was "*Saving Water is Always in Season!*" The Water Conservation Office received 270 entries. The annual poster calendar is a favorite in the Santa Fe community, with more than 5,000 of

the 2014 calendars distributed. Winners of the poster contest receive a prize package that includes conservation kits for saving water at home. The grand prize winning poster is displayed for a year on the back of a city bus and on the calendar cover. First through third place winners will be featured in the 2015 calendar.

12th Annual Children's Water Fiesta:

Teacher's meeting: March 13, 2014

Event: April 16-17, 2014

This year, an online form was utilized to register the classes. All slots were filled within 4 days of the webform going live and registration was cut off well in advance of the deadline. Twenty-eight classes (596 students) registered for this event!

Students in the 4th grade from throughout the Santa Fe area spend a wonderful day learning about water at the Santa Fe Community Convention Center! Fiesta activities cover a wide range of core curriculum areas including language arts, math, science, social studies, visual arts, and health & wellness. Presenters demonstrate water related facts, concepts and values through fun, hands-on learning activities.

Results of the 2013 Water Fiesta:

- 636 students from the Santa Fe Public School (SFPS) system attended,
- Schools attending: Agua Fria (4 classes), Carlos Gilbert (2), Cesar Chavez (4), Pinon (3), Gonzales (2), Ramirez Thomas (4), El Dorado (3), Amy Biehl (3), and Kearny (4)
- 15 organizations donated their time and effort
- 18 different activities were presented (some activities were only presented on one of the two days)
- Media Coverage: front page cover of the Albuquerque Journal North.

Earth Day Events:

The Water Conservation Office will have a table at the following Earth Day events:

- The Railyard, April 26, 2014 11:30am-4pm
- Genoveva Chavez Community Center, April 27, 10am-2pm

CommUNITY Day:

The Water Conservation Office will have a table at CommUNITY Day, May 10, 10am-3pm

Attachments: Event Flyers

Are You A “Smart” Landscape Professional?

Join us for QWEL training and become one.

QWEL (Qualified Water Efficient Landscaper) training and certification gives you up-to-date knowledge in water efficient and sustainable landscape practices, including design, maintenance and operation of “smart” irrigation systems, which can reduce landscape water demand.

As the climate in Santa Fe gets hotter and drier, the demand for “smart” irrigation technology is increasing. “Smart” landscape professionals understand these technologies, local soil and weather conditions, and trends in water-efficient irrigation systems.

Register early, class size is limited to 25 people.

Dates: **March 18-19, 25-27, 2014**

Location: **Genoveva Chavez Community Center**

Cost: **\$75/person.**

To register go to www.santafenm.gov/educational_programs and click on the application link. Registration deadline is **March 11, 2014.**

For more information call the City of Santa Fe Water Conservation Office at 505-955-4225, or email to wcoffice@santafenm.gov.

QWEL training is co-sponsored by the City of Santa Fe Water Conservation Office and the New Mexico Water Conservation Alliance



Your 4th grade class is invited to attend the...

Santa Fe Children's Water Fiesta

April 16th & 17th, 2014

The
Water
Conservation
Office invites Santa
Fe 4th grade classes to
participate in a wonderful
day of learning about water! Fiesta
activities will cover a wide range of core
curriculum areas including language arts,
math, science, social studies, visual arts, and health
& wellness. Presenters will present water related facts,
concepts, and values through fun, hands-on learning activities.

To apply, go to www.santafenm.gov/educational_programs and click on
the application link. The application deadline is Friday,
February 14, 2014. Space is limited so please apply
early.

Each class will attend one day and participate
in five activities. There will be a BYO brown bag
lunch break. Bus transportation is provided by the
Water Conservation Office and there is no cost for
participation.



Fiesta Sponsored By: City of Santa Fe

CITY OF SANTA FE
Water Conservation Office
801 W. San Mateo Road
PO Box 909
Santa Fe, NM 87504-0909



Caryn Grosse
Phone: (505) 955-4221
Fax: (505) 955-4208
clgrosse@santafenm.gov
www.santafenm.gov/water_conservation
or www.savewatersantafe.com



**Difference in Potable Water Use Restrictions between Emergency Stages,
as proposed in current Chapter 25 Amendments**

| | Non-emergency | Emergency | |
|--|---|---|---|
| Stages | NORMAL | WARNING | CRISIS |
| | green | orange | red |
| Triggers | Supply>=Unrestricted Demand | Supply is 80-100% Unrestricted Demand | Supply is 0-80% Unrestricted Demand |
| Change-of-stage authority | | City Manager based upon supply/demand data from Water Division director | City Manager based upon supply/demand data from Water Division director |
| Rate | Inclined seasonal block | Inclined seasonal block | Inclined seasonal block |
| Surcharges | none | none | none |
| Stage-sensitive conservation measures | | | |
| Vehicle washing with positive shut off nozzle | yes | yes | no |
| Days of week watering using potable water | Recommended limit of no more than three days per week | 2 (Odd/ Even Schedule) | none |
| Planting of all other vegetative materials | yes | yes; strongly discouraged; must comply with 2 day/week watering | no |
| Planting of warm-season grasses | yes | yes; must comply with 2 day/week watering | no |
| Planting of cool-season grasses | Strongly discouraged | no | no |
| Swimming pools and spas | yes | 1 initial filling only | no |
| Water features | yes | yes | no |
| Building restrictions | none; must comply with WBAO | none; must comply with WBAO | none; must comply with WBAO |
| Posting of water emergency signs in public bulletins | no | yes | yes |
| Sales of potable water outside of service area | yes | yes | no |

Year-round, stage-insensitive conservation measures

Eating establishments serve water only upon request
Lodging facilities to change linens no more than every four days
Outdoor irrigation prohibited 10am-6pm from May 1 thru October 31
Turf grass or seed mixes shall not contain more than 25% Kentucky Bluegrass
Cleaning of outdoor hard surfaces with water is prohibited
Swimming pools must be covered when not in use
Fugitive water is prohibited
Specified construction must use treated wastewater
Public bathrooms exhibit 'water conscience' signage

MEMORANDUM

TO: City of Santa Fe Public Utilities Committee
City of Santa Fe Water Conservation Committee
Buckman Direct Diversion Board

FROM: Rick Carpenter, Water Resources and Conservation Manager *RC*

VIA: Nick Schiavo, Acting Public Utilities Department and Water Division *NSA*
Director

DATE: February 18, 2014

SUBJECT: 30th Monthly Update on Drought and Water Resource Management

CURRENT UPDATE – GENERAL WATER RESOURCE MANGEMENT

As the Committee/Board is aware, our region is still suffering through a severe drought. Our region has gone through three consecutive years of record drought and heat. It is now apparent that we are probably heading into a fourth consecutive year of severe drought and abnormal heat which will present significant challenges to all water purveyors, utilities, and irrigators going forward into next year. Even though much of the State and our region have received moderate monsoonal rains overall in July and August, and with much of the state receiving record high monsoonal rains in September, most of the state of New Mexico remains in “severe to extreme” drought conditions. New Mexico appears to be the epicenter of the western U.S. drought. Weather prediction models indicate that, at least through the early part of this winter, if not longer, drought conditions in the southwest (especially Arizona and New Mexico) should be neutral to below average precipitation (snow) and above average temperatures, therefore, overall drought conditions will likely still persist at least through the early part of next year. Runoff into regional river basins and reservoirs is expected to be slightly below normal to significantly below.

This current drought is extreme, but what sets it apart from previous extreme droughts is that, absent significant winter snow the rest of this year, the region will enter into next spring and summer without very much carry-over water in regional reservoirs – they are at low levels (except for the local McClure reservoir in Santa Fe). For example, Heron reservoir (San Juan-Chama Project water) is currently at 29% of capacity. This condition could make this year much more challenging than the last year has been. However, the City of Santa Fe has invested in a robust and diverse portfolio of four distinct water supply sources that allows for flexibility in meeting demand: Buckman well field, City well field, Canyon Road Water Treatment Plant on the Upper Santa Fe River, and the Buckman Direct Diversion on the Rio Grande.

LOCAL CONDITIONS

Source of Supply Utilization Summary

January 2014

| | | |
|-------------------------------------|---------------|---------------|
| City Wells | 32.90mg | 100.97af |
| Buckman Wells | 0.00mg | 0.00af |
| CRWTP | 41.11mg | 126.18af |
| BRWTP | 125.36mg | 384.75af |
| <i>Other Wells(Osage, MRC, etc)</i> | <i>0.00mg</i> | <i>0.00af</i> |

Upper Santa Fe River/CRWTP

| | Total Combined Reservoir Level | Santa Fe Snow Gage | Reservoir Inflow |
|---|-----------------------------------|--------------------|------------------|
| February 18, 2014 | 64.2% | 27.0 inches | 1.09 MGD |
| 5-Year Average for This Date (2009 – 2013) | 47.73% | 30.0 inches | 2.02 MGD |

Heading into September, water resource managers for the City were expecting the Canyon Road Water Treatment Plant to experience significant supply shortfalls later this year and into next year – due in part to severely reduced inflows resulting from the drought, but also due to the planned construction projects inside of the reservoir footprints. However, as of February 18th, and due to the recent heavy rains in mid-September and some early snow storms, total combined storage in Nichols and McClure reservoirs is up to 64.2% (or about 2,569 acre-feet of storage). Flows into Nichols are being by-passed due to construction on the new intake facility. Inflows are expected to continue for the near future and so McClure has been releasing a small amount of water to approximate inflows.

Buckman Regional Water Treatment Plant

Flows in the Rio Grande are relatively low but the BDD Project is able to divert water. Turbidity and suspended solids are very low and raw water quality is good. Demand in the system has been low, requiring only 4 to 5 mgd from the BDD Project.

REGIONAL CONDITIONS

Rio Grande Basin

Surface flows in the Rio Grande and its tributaries have been well below normal, storage levels in regional reservoirs are very low currently. The recent rains have helped river flows (at least norm, temporarily) and regional reservoirs are receiving needed inflow, but normal to above normal to above normal snow pack is still needed this coming winter or reservoir levels will still

be critically low heading into next irrigation season. Recent weather forecast models seem to be suggesting that snow pack for the rest of this winter may be disappointing. Native flows in the Rio Grande will likely be low to very low.

San Juan Basin

It should be stressed that, conditions could significantly worsen for San Juan Chama Project deliveries next year if the drought persists (i.e., low snow pack this coming winter in the San Juan Basin), due to a lack of carry-over storage in Heron Reservoir and other reservoirs in the system. Heron Reservoir is currently at a historic low level of 29% of capacity for this time of year. Deliveries to SJCP contractors could be significantly curtailed this year and next year. It is still too early in the year to quantify with a lot of confidence, but the Bureau of Reclamation has recently indicated that it is very likely that SJCP deliveries this year will be curtailed by some measurable amount. The Bureau of Reclamation will provide an update (quantified percentage) in March with regard to the projected curtailment of San Juan-Chama contractors this coming year.

Passed Both Houses

HB 222 PUEBLO LEASE OF ADJUDICATED WATER

<http://www.nmlegis.gov/Sessions/14%20Regular/bills/house/HB0222.pdf>

SB 112 WATER PROJECT FUND PROJECTS

<http://www.nmlegis.gov/Sessions/14%20Regular/bills/senate/SB0112.pdf>

Long, long list of water shed clearing projects. Also 14 of the 16 positions on the WTB are appointed by the governor. SB 112 adds a number of legislative appointments. (Should SF pursue one of these positions?)

The City applied for Watershed funds (\$5,000,000 to be spread over 3 years of restoration/thinning work), but did not make the cut.

SB 164 PUEBLO LEASE OF ADJUDICATED WATER

<http://www.nmlegis.gov/Sessions/14%20Regular/bills/senate/SB0164.pdf>

In the capital outlay bill were several notables. The pdf listing by county is the easier to understand.

http://www.nmlegis.gov/lcs/billfinder/capital_outlay.aspx

<http://www.nmlegis.gov/Sessions/14%20Regular/bills/house/HB0055.pdf>

<http://www.nmlegis.gov/Sessions/14%20regular/capitaloutlays/2014%20STB%20Capital%20Projects%20HB55%20by%20County.pdf>

\$120,000 water catchment system at Atalaya Elementary School

\$40,000 water catchment system at Eldorado Elementary

Increased budget to the state engineer's office to try and expedite the Lower Rio Grande and San Juan adjudications.

Senator Peter Wirth pushed for the rainwater harvesting tax credit and it made it quite successfully through two committees (thank you Nate) but with the short session did not make it through the circuit the committees to be voted on to be voted on by the general assembly.

He also pointed out that there is \$6.2M for Watershed Restoration in the Department of Energy Minerals.

Of course, all the above must be signed.

Working Group #1 is charged with updating the Water Conservation & Drought Management that the City must submit periodically to the Office of the State Engineer. The document contains a section in which we describe our future conservation plans. In the past, this section has gotten short shrift. Our goal is to enhance it by including possible new programs that we deem to be high priority.

We previously requested comments from the full WCC on a draft set of Guiding Principles for water conservation programs. Now we would like your working group to identify what you consider your 5 highest priority programs for the short (1-3 years) or longer (3-5 years) term. These can be entirely new projects or new enhancements to current ones. Please limit these to the general focus of your working group. We would like your input by Friday, February 21. Please send it by email to me, copying working group members Lisa R., Bill R. Doug as well as Laurie & Caryn. We will review where we are at the March WCC meeting.

While this may seem like a tight deadline, the list will by no means be final. It is a first pass. You and the full committee will have ample opportunity to make revisions during the document review process. Please use the following format:

| 5 programs, order not important | DESCRIPTIVE TITLE | TIMEFRAME (Short/Longer) | BRIEF DESCRIPTION (3 sentence max) |
|--|--|--------------------------|--|
| Advanced Metering Infrastructure (AMI) & Billing Software | The installation of electronic transmitting water meters & better billing software | Short/Longer | Support AMI efforts for better meter reading and better software packages that help consumers track individual daily water use as a tool for increased efficiency and conservation. |
| Optimizing Water Use/ Efficiency Community Outreach | Find ways to discern between user groups (parks, hospitals, residences, lodging other commercial, large residential, etc.) | Short | Continue and expand relationships with the Santa Fe community by creating liaison to better understand issues and solutions Support recognition of successful partners and program Continue to improve city/county relationships; look for ways to coordinate policies and goals |
| Training & Code Modifications | Identify ways to optimize the water consumption of large users, and encourage water conservation by large users. | Short | Work to expand education outreach and training efforts Support code modifications that promote water efficiency |
| Behavior Modification | Explore behavioral modification models as a means to reduction of use | Short | Exploring with WCC on ways to localizing —adding passive water harvesting info to the curriculum perhaps through the QWEL program Continue to encourage and support training efforts for water efficiency |

| | | | |
|---|---|--------------|---|
| | | Short/Longer | Research commercial, intuitional and household water budgets |
| Rebates Commercial/Residential/ Institutional | Explore and suggest potential rebate programs and potential savings for large users | Short/Longer | Support the expansion of behavior modification rebates such as smart controllers, flow meter, ami devices, etc.... Work to discourage wasteful appliance such as RO water purification systems, air conditioning/swamp coolers, commercial washers, and support alternatives |
| | | | |

Thanks very much for your help.
 Lisa Randall, Doug Pushard, Bill Roth, Grace Perez

Working Group #3 – March Update

Water Rating System Committee

Working Group Team Objectives: Create a water use ranking tool for use by builders in New Homes (may be expanded later, but this is first deliverable). Tool would be based on Santa Fe, but built so could be used by other communities.

Next Meeting: 4/12 at 4 at Barker

Objective: Finalize draft interior rating questions

Actions:

Doug to send out EPA Watersense-based spreadsheet to all

All to send Doug additions/changes to spreadsheet prior to the next meeting

Attendees: All

Discussion Notes:

Discussed pros and cons of various rating systems

Decided to use WaterSense program as the basis to start, with changes

Baseline house will be a 2009 built house using the created ranking system as a start

Baseline house will equal 100, with reduction of number based on water use reduction

Will have Interior and Exterior components that are separate, but both mandatory

Will start with the Interior and try and get that nailed prior to trying to do something on the exterior

Will require Cost of Water as an input, so can calculate direct water savings

Eventually will output both local and national score for comparison purposes

First pass will be on single-family home

Will figure out how to allow other communities to set their own baseline

System will be web-based and database-based to allow capture and comparison of information

Working Group 4

Issue: Promoting Conservation Strategies of Large Water Users

| | |
|---------------------------|---|
| Strategic Goal | Contribute to reducing water use by optimizing water use by large water users |
| Objectives | Optimize water use by large users |
| Tasks | <ul style="list-style-type: none">• Identify large water users• Promote the installation of electronic transmitting water meters• Estimate contribution to total demand• Engage large water users in the discussion of how to optimize water use• Identify ways to optimize the water consumption of large users, and encourage water conservation by large users, especially parks• Engage in discussion Research on Smart Controllers for rebates/park installations• Explore and suggest potential rebate programs and potential savings for large users• Explore behavioral modification models as a means to reduction of use• Research commercial water budgets |
| Members | Karyn Schmitt, Melissa McDonald, Tim Michael |
| Notes | <ul style="list-style-type: none">• Research on Smart Controllers for rebates/park installations• Exploring with WCC on ways to localizing —adding passive water harvesting info to the curriculum perhaps through the QWEL program• Liaison with Parks and Open Space (POSAC--Melissa McDonald)• Support AMI efforts for better meter reading and better software packages that help consumers track individual daily water use as a tool for increased efficiency and conservation• Explore gray water rebate options with Kim Kelly Sustainable Santa Fe Commission |
| Reference Material | <ul style="list-style-type: none">• Water Use in Santa Fe, Borchert et al., July 2009• QWEL Guide and website/WaterSense• City of Tucson, City of Flagstaff, Salt Lake City, Boulder website & others (engage in discussions with other water conservation programs)• Upper Rio Grande Impact Assessment, a report developed by Reclamation's West Wide Climate Risk Assessment, a WaterSMART Program, http://www.usbr.gov/WaterSMART/wcra/reports/urgla.html• Santa Fe Basin Study Preliminary Assessment Report, http://www.santafenm.gov/index.aspx?nid=2577• 2001 City of Santa Fe Parks Mater Plan• US Dept. of Energy, Federal Energy Management Program, Guidelines for Estimating Unmetered Landscaping Water Use |
| Fiscal Impact | To be determined |

Update:

Legislative: Committee members lobbied various committees however; SB16 was tabled for this session. We will continue to follow this initiative for submission in next year's legislature.

Parks: We are continuing to compile water usage numbers. We've set meeting with WC to discuss methodology.

WG Overlap: WERS --Members contacted WG#2(?) to offer landscape feedback on WERS project. We replied to request for highest priorities by WG#1.

Xeriscape conference: Members and staff attended the conference. Water Conservation highlights included: Annual Climate Update by Dr. Gutzler; NM Urban Forest by Tracy Neal; Taking Conservation Initiatives to the Next Level by Karen Guz (San Antonio Water); Planning for Drought—Mary Ann Dickinson, CEO Alliance for Water Efficiency; Collaborative Policy Development for Green Infrastructure and Water Harvesting by Catlow Shipek; Making the Most of Greywater by Paul James; Common Ground on Hostile Turf by Lucy Moore.