

Agenda

CITY CLERK'S OFFICE

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SANTA FE WATER CONSERVATION COMMITTEE MEETING

CITY HALL - 200 LINCOLN AVE.

CITY COUNCILORS' CONFERENCE ROOM

TUESDAY, June 9, 2015

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 MAY12, 2015 WATER CONSERVATION COMMITTEE MEETING
6. CONSENT ITEMS

DISCUSSION ITEMS:

7. DROUGHT, MONSOON AND WATER RESOURCE UPDATE (Rick Carpenter, 10 minutes)
8. CLIMATE ACTION TASKFORCE (Councilor Ives, 10 minutes)
9. 2014 WATER CONSERVATION REBATES (Caryn Grosse, 10 Minutes)

INFORMATIONAL ITEMS:

10. GROUP REPORTS FROM WATER CONSERVATION COMMITTEE INITIATIVES: (Councilor Ives, 40 minutes)
 - A. GROUP #3- WATER CONSERVATION CODES, ORDINANCES & REGULATIONS – LEGISLATIVE UPDATE (10 minutes)
 - B. GROUP #4- REESTABLISH TREND OF NET ANNUAL REDUCTIONS IN PER CAPITA WATER USAGE AND IDENTIFYING LARGE WATER USERS (10 minutes)
 - C. *NEW!* GROUP #5-WATER SYSTEM MAP (10 minutes)
 - D. *GROUP #2- WATER CONSERVATION EDUCATION/OUTREACH (10 minutes)*

MATTERS FROM STAFF:

- Search Process for Water Conservation Staff – UPDATE.
- Water Conservation Office Spring Update - INFORMATIONAL

MATTERS FROM COMMITTEE:

MATTERS FROM PUBLIC:

NEXT MEETING – TUESDAY, JULY 14, 2015:

CAPTIONS: FRIDAY JUNE 26, 2015 @ 3 PM PACKET MATERIAL: MONDAY JUNE 29, 2015 @ 3 PM

ITEMS FOR NEXT AGENDA:

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.

WATER CONSERVATION COMMITTEE
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MAY 12, 2015

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Roll Call/Call to Order	The Water Conservation Committee Meeting was called to order by the Vice Chair, at 4:00 pm in the City Councilor's Conference Room. A quorum was present at the time of roll call.	Page 2
Approval of Agenda	<i>Mr. Roth moved to approve the agenda as presented, Ms. Piburn seconded the motion, motion carried by unanimous voice vote.</i>	Page 2
Approval of Consent Agenda	No Action needed	Page 2
Approval of Minutes, April 14, 2015	Corrections: Page 6, 1 st line – will take over help coordinate Page 7, Matters from Committee, 2 nd bullet: 2015 2014 <i>Ms. Piburn moved to approve the minutes of April 14, 2015 as amended, second by Mr. Roth, motion carried by unanimous voice vote.</i>	Page 2
CONSENT AGENDA	No Action Needed	Page 2
Discussion Items (Cont'd) <ul style="list-style-type: none"> • Drought Monsoon and Water Resource Update • Climate Action Task Force • 13th Annual Children's Poster Contest Theme Selection 	Informational, no formal action. Recommendations for Children's Poster Contest were provided to staff.	Page 3 - 6
Informational Items Group Reports	Informational	Page 6 – 8
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Adjournment and signature	Meeting was adjourned at 5:40 pm	Page 11

**SANTA FE WATER CONSERVATION COMMITTEE MEETING
TUESDAY, MAY 12, 2015
4:00 PM TO 5:45 PM**

MINUTES

1. CALL TO ORDER

Lisa Randall, Vice Chair called the meeting to order at 4:00 pm in the City Councilor's Conference Room. A quorum is reflected in roll call.

2. ROLL CALL

Present:

Lisa Randall, Vice Chair (Acting Chair)
Stephen Wiman
Tim Michael
Grace Perez
Bill Roth
Doug Pushard
Giselle Piburn

Not Present/Excused

Councilor Peter Ives, Chair

Nancy Avedisian, Resigned from Committee

Others Present:

Caryn Grosse, Water Conservation Specialist
Rick Carpenter, Water Department
Robert Wood, Water Conservation Specialist, Sr.
Andy Otto, Santa Fe Watershed Association
Fran Lucero, Stenographer

3. APPROVAL OF AGENDA

Mr. Roth moved to approve the agenda as presented, Ms. Piburn seconded the motion, motion carried by unanimous voice vote.

4. APPROVAL OF CONSENT AGENDA

None

5. APPROVAL OF MINUTES April 14, 2015

Corrections: Page 6, 1st line – ~~will take over~~ help coordinate
Page 7, Matters from Committee, 2nd bullet: ~~2015~~ 2014

Ms. Piburn moved to approve the minutes of April 14, 2015 as amended, second by Mr. Roth, motion carried by unanimous voice vote.

6. CONSENT ITEMS

None

DISCUSSION ITEMS:

7. DROUGHT, MONSOON AND WATER RESOURCE UPDATE, Rick Carpenter

Mr. Carpenter referred to the report included in the WCC Packet. Last week we received an update on the San Juan/Chama project deliveries from the Bureau of Reclamation and it was pretty dismal. They are projecting a total delivery this year of 35,000 acre feet of water. Normal yield is about 109,000 acre feet of water. As discussed in previous meetings, what happens if there is not a lot of native flow in the river, (to be detailed further)? MRGC will run out of water around June or July, no San Juan Chama River water, people will start calling for, donated water in the river. That was not updated from the snow fall from 2 weeks ago and whatever is coming tonight or tomorrow, those numbers should improve. Also, as early as May 4th in the forecast, Santa Fe River is 47% of long term average, Rio Grande 44% flow. Mr. Carpenter said he is very concerned about the projections for the Rio Grande which is 25% of normal average, what that means there is that we will have sections of the river down south by Socorro which will dry. WE are going to have drying, fish are in jeopardy. Good news, we have been waiting for at least 2 years on getting new biological assessment; that is a prerequisite to a biological opinion and that is parallel to a recovery implication plan. The Feds informed staff that they will have the biological opinion out by Thursday of this week. The idea behind all of that is to take the changing conditions off the table because we will have broad coverage of what will become the new biological plan.

Ms. Perez: With the biological assessment, will it require minimum flows in river.

Mr. Carpenter: It accepts that we will impact the fish and other endangered species in the river as a whole. But it takes those affects and it rolls them up in to a baseline, it says ok, now we know what your affects are, we are going to give you operating permissions that basically give you broad coverage to operate within certain parameters without the threat of being called on every individual operational parameter that we have.

Ms Perez: Strictly for Buckman?

Mr. Carpenter: Yes and No. Years ago the planner for Buckman tried to get our own biological opinion which is really hard to do. Albuquerque is the only one that has one. The BDD has it, Albuquerque has it, there was the 2003 biological opinion that covered all the other operators and was a subject of the last litigation. That is why we are trying to get the new one in place.

Mr. Wiman: How about the construction at McClure.

Mr. Carpenter: We had really fallen behind several months ago; we haven't fallen behind since then. We will be able to treat some amount of water that comes through, we are hoping for 5-6 may be even 7 ____, which is a lot. The water is coming directly through. We would love to capture all of the run-off we are going to get. The Sangres are doing well snow packed they are still full.

Mr. Wiman: How is that impacting the discharge, are we ahead of the schedule on that?

Mr. Carpenter: We are actually over top some of the gauges in some of the Acequias. No problem, the fishing derby will happen on schedule unless we get a huge storm tonight or tomorrow. That would be more of a too much water problem.

Mr. Wiman: Bureau of Reclamation Study, any idea when the long range planning study will be ready. We have seen the slide show of the preliminary results and I guess the final report is in Washington.

Mr. Carpenter: Which study are you talking about? Depends what study you are talking about, the Climate Change Data has been in Washington, DC and a date is not known.

Ms. Grosse: It looks like Noah's predicting more precipitation this summer due to El Nino.

Mr. Carpenter: That hasn't really changed in the last 2 or 3 updates. I think they are still saying 50-60% of above average precipitation through the summer. As they say, plan for the worst. They have been saying that since October "El Nino is coming".

Ms. Grosse said that it is her understanding that they have declared officially El Nino.

Mr. Carpenter said that is correct, that all of the conditions that officially make it an El Nino have occurred. Models are saying it is a good monsoon.

Mr. Pushard: Annual Water Report 2014?

Mr. Carpenter: It was a little bit uncomfortable at the last Public Utilities meeting, we were able to finish and present the 2013 Annual Water Report. We are in the process of fixing a lot of what resulted in those delays, a lot of it dates back to "Chapter 25" and the requirements that came from the 2000 and 2002 droughts. We didn't have the Buckman Wells, we didn't even have the BDD permits yet and we were very concerned if we were going to have enough water for the year. A lot of what was in the Annual Water Report and what was in the Annual Drought Report dates back. Those conditions have changed now. A lot of it isn't realistic anymore; we have a meeting tomorrow to update the requirement in Chapter 25. As a result of that there are parallel efforts, we are hoping to get the 2014 report completed very soon.

Mr. Pushard: So 2013 is done?

Mr. Carpenter: Yes, it is done, it was accepted at PUC, and it is on the City Council Agenda for tomorrow night.

Mr. Pushard asked Ms. Grosse if it would be possible to get a copy of the report or have a link sent to the WCC members.

Ms. Grosse noted that she is not the author of that document; it is on the city website. Mr. Carpenter will follow up and get either a PDF or link to the WCC members.

Mr. Pushard: Question on recent funding excess that was uncovered, was there any thought of any of those dollars coming to the Water Conservation programs?

Mr. Carpenter: That is not funding that I work on. It might be a question for the City Attorney or the Finance Director.

Mr. Carpenter reported on Matters from Staff:

The search process for Water Conservation Staff: Mr. Carpenter has been pushing hard for the 3 vacant positions. (1) Temporary Seasonal, (1) Conservation Code Enforcement Officer and (1) back filling Laurie's position as well as the Water Resource Analyst. Filed paperwork the last week of Feb - 1st week of March with HR on all three positions. I have had a series of meetings with Nick Schiavo; he has been in contact with HR and with the City Manager. The Temporary Seasonal position has already been advertised. Hoping to get the right type of people and have them go through a successful background check. After this discussion they have agreed to send the paper work to the City Manager for signature to advertise Laurie's position. All three positions have been approved and are being advertised.

Mr. Pushard asked if they could have a copy of the job descriptions. Mr. Carpenter informed the WCC members that the job descriptions are on the city website under Job Opportunities.

8. CLIMATE ACTION TASKFORCE

Ms. Randall said there is not much new in the Energy Efficiency area. It is a very dynamic action oriented group, they like to get things done and funding set up. Santa Fe was #6 on the top 10 list of small cities for the EPA Energy Star rated buildings city wide. 15 of those 17 buildings that qualified were Santa Fe Public Schools.

9. 13th ANNUAL CHILDREN'S POSTER CONTEST THEME SELECTION. Caryn Grosse

Ms. Grosse stated that there are three possible themes for this year's contest and requested the committees input. In the packet is a showing of the last five years – themes and grand prize winner. The first theme "Then & Now" where students would talk with their parents and grandparents about how they used water when they were kids and how it is different in how we use water now. This would tie in very well with the 2015 marketing campaign. Another idea is "What is Water For" The third idea was, "Where Does My Water Come From" Please keep in mind that the theme needs to be something that the children can graphically represent so they can do something that is creative, a design that exemplifies water conservation. Input would be appreciated at today's meeting in order to get the information ready to go for the next issue of Tumbleweed and for the schools when they are back in session.

Ms. Piburn: Like the theme "Then & Now", I think it is great to get kids to talk to another generation for many reasons.

Mr. Michael: I agree with Ms. Piburn, I like the theme "Then and Now".

Mr. Pushard also likes the "Then & Now". Agrees with Ms. Piburn's comments and said it might be hard to draw.

Mr. Roth likes "Where Does My Water Come From" - he feels it would be easier to depict.

Ms. Randall said that the knowledge of the educators sharing the information with the students may be a challenge on how to depict it.

Ms. Perez said that there are nice approaches, if there is no buy in with the families with the “Then & Now” – that will bring more dialogue around the table. Working with mentorship I am always interested in that crossing of the generations and getting that conversation going.

Ms. Grosse said that the general consensus is to proceed with activities for “Then & Now”. Thank you. All WCC members are welcome to be judges, which are approximately mid-January, announcements go out in December. Last year there were 421 entries and review is done within an hour.

INFORMATIONAL ITEMS:

10. GROUP REPORTS FROM WATER CONSERVATION COMMITTEE INITIATIVES:

- a. **GROUP #2- WATER CONSERVATION EDUCATION/OUTREACH**
Ms. Perez reported that Winn Nelson got rescheduled; it will be this Friday from 9 am – 11 am. We will have a table at the Home Depot this Saturday and talk about rebates on washer and dryers. Ms. Perez said that the information she has is from the website and she would primarily be guiding people. Mr. Wood will meet to discuss details with Ms. Perez. Ms. Perez would like to encourage the dialog about water and the bigger issues. Mr. Roth would like to forward this information and his association will do an e-mail blast. Mr. Wood would also like to send this information to the WCC members with the Chairs approval. Approval granted.

- b. **GROUP #3- WATER CONSERVATION CODES, ORDINANCES & REGULATIONS – LEGISLATIVE UPDATE**

Doug Pushard: The State adopted the UPC 2012 Plumbing Code. The City will be updating their Plumbing Code to match that State’s Plumbing Code. This will occur in the next 30-90 days. It does impact us in a couple of areas; the 2012 Code includes both grey water and rainwater harvesting. The City adopted an Ordinance authorizing rainwater harvesting, we will need to go back and look at that because of current permitting guidelines are now going to not be in sync with Plumbing Code. Great example is hydrants – unfortunately when we adopted our rainwater harvesting code we did not allow for hydrants. Fortunately the Plumbing Code does allow for hydrants. We may have to change our permitting process in total because historically we have required a separate permit but now it can come under a Plumbing Permit. That was done under Wendy Blackwell when she was here.

Mr. Roth: One of the curious things about that is that the city has not addressed, according to the 2009 and 2012 Plumbing Code, systems under a certain size do not require a permit. Grey water systems under 300 gallons a day do not require a permit. With the hydrants they are very specific of the permit that you need to have.

Ms. Grosse: Per the State of New Mexico, systems under 250 gallons a day do not require a permit. It is my understanding that the City of Santa Fe follows the State Code.

Mr. Pushard: No, the city code did not allow any grey water at all without a holding tank, which basically says no grey water, because no one is going to install a holding tank. We were following an older version of code even though the states code was more up to date. If you are in the County for example, anywhere besides Albuquerque or Santa Fe, grey water system was no permit required. In the city of Santa Fe that was not the case. This actually helps us a lot to have grey water systems under, whether it is going to be the 250 or the UPC Code 300, it doesn't really matter, but if we adopt either one of those it will help us a lot because we will be able to get almost every new house will get one in.

Mr. Roth: We have had conversations with Paul Martinez and he is on board with all of this. It also says who can design these systems. He was asking for an engineer to design them which is very difficult. This gives someone like Mr. Pushard to do a drawing and have it accepted.

Mr. Pushard: The old ways was a lot better; it is now going in to the second thing. We do have a City of Santa Fe Sustainable Green Building Code Update Committee. This is a result of City Council passing a resolution to integrate WERS in to the Green Building Code. At this point in time there will be an Ordinance that adopts the UPC Code and there will be another resolution after that amending the Green Building code. I believe the UPC Code Resolution will probably happen in June and WERS in July. Mr. Pushard included in the packet the WERS update and how it works. The current building code, as a reminder, the Green Building Code basically required almost nothing to get from a water perspective to be approved. All you had to do was put in a couple of water sense appliances and you met the Green Building code. The thinking is to tighten up the Green Building Code. They did a great job on the energy rating side and that is what drove the first revision of the Green Building Code. We will tighten up the water side which is a long process and will come before this committee before it goes to Council.

WERS Update: We now have a draft MOU which I think will be approved by both the SFCC and the Green Build Coalition. SFCC will be one of the first institutions to have WERS Certification training and it will be on-line training. It will make it available to people around the country. Verifiers will still have to do a field exercise and it is a proctored exam. SFCC has signed up to build up that training. Mr. Pushard said they have a couple of MOUs in process with some other organizations; we also are having discussions with the Alliance for Water Efficiency on doing some things with them. Version 1 is in pilot now, we are starting to work on the outdoors and the outdoors for the City of Santa Fe is actually going to be much easier than we had originally thought because we have Option B, which basically says how much water a resident can use, which is 64,000 gallons. How we are going to do the outdoors is we are going to assume whatever city has already set a water budget like the City of Santa Fe. As other cities adopt they will have to wrestle with the issue of a water budget. We have a water budget here, we know what it is and so what we do when we look at the outdoors, they have to live within that water budget because it is the water budget for the permit.

Mr. Pushard inquired of Ms. Grosse and Mr. Woods if they have gotten the paper work done for the pilots and played with the spreadsheet? Ms. Gross said she has

forwarded the agreement to Marcos Martinez, City Attorney to ask if he would sign it and he has not responded.

- c. GROUP #4- REESTABLISH TREND OF NET ANNUAL REDUCTIONS IN PER CAPITA WATER USAGE AND IDENTIFYING LARGE WATER USERS

Mr. Michael: Nothing to report.

- d. *NEW!* GROUP #5-WATER SYSTEM MAP

Mr. Wiman: Communicating with Andrew and there is no progress at this time. He said he will be at the June meeting with a more formal report. Mr. Pushard asked if we are depending on the city to provide all the inputs in to the model. Mr. Wiman said they have given the city quite a few inputs at the previous meetings, we are waiting for them to come back to address the project. Mr. Wiman said he does not believe they have gotten far enough to challenge what has been provided.

The Chair asked Mr. Pushard if his question was directed wanting to share input?

Mr. Pushard said no, it is his recollection was that we had given them a lot of parameters we would like to see in the model but we didn't recall if we were actually collecting some of the data for some of those parameters.

Mr. Wiman said that they had asked for his list of all the parameters and he was going to re-work them and get them back to Mr. Wiman with questions or additional details; that have not taken place.

Mr. Wiman said, on a new project – something I have always wanted to do personally and I think it is appropriate for the WCC; I want to build a comparison on what the requirements are for processing treated effluent and releasing it to a stream vs. a requirement to make the water compliant with EPA drinking water standards. Mr. Wiman said he was pleasantly surprised, he ran this by Shannon Jones who is in Wastewater now, he responded immediately and sent the application for the renewal of the discharge permit which is due to be renewed this year. That is where all the information lies with what they are currently required to do and he expects some changes. Mr. Wiman said he is very familiar with the Drinking Water Standards are. Mr. Wiman said he does not think it is much more difficult other than bacteriologically to turn treated effluent to potable water. This is Mr. Wiman's new project. Group #5 is pretty much out of our hands at this time until we get the feedback.

The Chair asked if Mr. Wiman is proposing a Group #6. Volunteers: Bill Roth and Stephen Wiman

MATTERS FROM STAFF:

- Mr. Wood talked about the staffing search, hope is to have the Intern fairly soon. The Chair asked how you find the Interns. Mr. Wood said they apply and they must be current students and currently one of the interns they are considering is J.D. Shagrough who is a senior at NM Tech in Socorro and has worked for Water Conservation before.
- Nancy Avedisian has resigned from the WCC. Mr. Wood encouraged the committee to submit candidate names and bring forth to the Chair. Guidelines should also be

reviewed, where they come from, what their expertise should be, etc., to have a well rounded committee.

- The Chair offered as a point of clarification, they inquired with the Councilor at the last meeting as to what those guidelines should look like and he said that the City Council is reviewing committee process and we should maybe hold on recommendations of new committee members until they clarify that.

Mr. Wood cautioned the amount of members needs to be monitored to assure that a quorum is obtained at all meetings.

Ms. Grosse reported that we should have 10 members plus the Chair, we are down to 7 members, and we need 6 members to have a quorum. The Chair said maybe we should move forward to find new members. Mr. Wood said we should also take a look at districts and disciplines not currently involved. Ms. Grosse noted that District 4 is not represented. We should have one landscape person and land use policy person.

Mr. Pushard asked staff to prepare a certificate of appreciation for Nancy Avedisian. Mr. Wood will handle this request.

MATTERS FROM COMMITTEE

The WCC members acknowledged Mr. Wood and his team for their participation on Saturday at Community Day.

(This topic of discussion was not listed on the Agenda)

Mr. Wiman would like to have some dialogue from WCC member regarding city ordinance recommends watering three times a week. Mr. Wiman said he was seeing a lot coming out in publications that watering that more than three times is restricted and prohibited. Mr. Wiman said he feels it is arbitrary and would like to work on this. He knows an argument is if we say it is restricted to three times a week people will water three times when they should only be watering two times. Mr. Wiman still favors something that is a lot easier to monitor, odd/even or something. With what we heard today from Mr. Carpenter, we need to ramp up the dialog about water conservation, which Ms. Perez is obviously doing. We need to adhere to what the ordinance says rather than I think it is arbitrary to say it is restricted or prohibited. I bring this up every year and it goes nowhere. Mr. Wiman said he would like to hear discussion.

Mr. Roth said he agrees and that the odd and even was easier to remember and he would be willing to help push for it. I think the level of awareness of water uses is rising rapidly, now is a good time to strike, people will be willing to do it. As Mr. Pushard has stated about Code, people just want to be told what they have to do. If you are willing to water less, great, but this is your max.

Mr. Wood said when considering those options also considers the enforcement availability that we have to enforce the even/odd. We have it as a recommendation for 3-days to water however we don't always have control.

Ms. Perez commented that when Ms. Trevizo was here, the Water Conservation Office was saying "required 3-days". I don't like the idea that the regulation says one thing and a staff member says something different. There are two different issues; there is that one and if you open that up how do you feel without calling everything in to question. Should we consider some other system some other way? It is worth us thinking about it, what is the best way for it to be enforceable.

Ms. Grosse said to the best of her knowledge we have never published anything out of the Water Conservation office that said 3-day max required, we have said recommend 3-day max. Ms. Grosse said they have received a number of phone calls from Reporters in the last few weeks asking about our restrictions. To each and every one of them I have told them that you cannot water between the hours of 10 am - 6 pm and that we **recommend** not watering more than 3-days a week. How the reporter interprets that is unfortunately beyond my control. Ms. Grosse said she is being as clear about that as she can and she can assure that Mr. Wood is also following the same protocol when they receive calls.

Mr. Roth added that he knows it is only recommended it is not a requirement, we are in times when we could require restricted water. It doesn't look good to the public if we are not restricting. They see someone watering 5-6 times a week and they wonder why that person can do it and they can't.

Mr. Wood said we can require restricted watering but it is hard to enforce.

Ms. Piburn: When you say it is the right thing to do I think that falls in line with what Bob was saying about people buy in more when it is a carrot more than a stick and we pull everybody in to our cause. I have heard in research that it works better.

Mr. Michael: What different does that make if we have restrictions. I don't think we have any data that exists. Doubt that it makes such a difference.

Mr. Wiman said that the recommendations and restrictions need to be clean on the city's website. We should be clear and consistent regarding the city ordinance.

Mr. Wood and Ms. Grosse will talk with webmaster (Kita) tomorrow.

Mr. Pushard: I believe the request is to move from recommended to required. That is what we would like the committee to consider, bring forth a resolution that would change the existing ordinance. I would like to have discussion on options and if we are going to make a resolution that goes to City Council let's make a resolution that says more than just that. I think it takes the same amount of work to make a resolution depending on what else we put there.

Mr. Wiman said he is not as keen on doing a resolution as he is the publicity being consistent with the Ordinances and it is not. In discussing this with other individuals they made the recommendation and suggested having community meetings. That is pretty much why Mr. Pushard and I dropped out of making presentations as we were generating audiences of 1 and 2 people. We talked at one time that the Water Conservation Department would publicize community type events. I think we need to ramp up Water Conservation. I commend Ms. Perez for carrying on with water education. I would like to see some venues at the Chavez Center or the Convention Center to get people out there for discussion. Another item since the last meeting, I have eaten in 4 restaurants, 3 of which automatically served us water.

Mr. Wood: – Water hot line. 955-4222 (Water Over use)

Ms. Perez: Would there be any downside say having a little card for the committee members that said "just a reminder restaurants need to serve water on request only" and every time we eat at restaurant and they do the wrong thing we would give them the card. Would there be any reason that would be a bad thing to do? This would be sponsored by the committee.

The Chair and the committee members really like this idea.

Mr. Pushard said there is a chain of restaurants where it is there policy to serve water.

Mr. Otto: One thing we haven't talked about is the Green lodging initiative and that contract is working through the city committees and set its' goal to be awarded to the Watershed Association. That should happen in July and part of that process will be to reach out to restaurants and hotels and have them participate in a mission and program, part of that is taking the current codes and making them aware of codes. We will also suggest other ways that they can conserve water. That program is funded by the city in the amount of \$50,000 and we expect to get in to approximately 24 different properties. We are waiting for the contract to be processed through the city.

Update for June Agenda: Water Meters – update since it looks like they are going to get funding approved.

Ms. Randall: The Principal of El Dorado is asking about city restrictions. Ms. Randall said she offered to find out what the El Dorado Water and Sanitation District requires. What she found was that privately owned wells they have zero jurisdiction over. Since the landscape, community garden and fire suppression is all off of the well, the question was asked what the restriction would be. Anything coming out of the building is under the El Dorado Water and Sanitation District restrictions.

Ms. Grosse: Santa Fe County water restrictions apply to wells. Ms. Grosse will provide information to Ms. Randall on the Santa Fe County Water requirements which are similar to the city requirements with two exceptions. The County fines are also double the City fines.

Mr. Wiman: Discussion on how to populate the WCC, what the official status of that is rather than letting it roll meeting-to-meeting. An update from the city is important; we should get recommendations of possible candidates. Mr. Wood will discuss with the Chair when they prepare the Agenda.

Fishing Derby will take place this weekend. 7 am -12 on Saturday May 16, 2015.

MATTERS FROM PUBLIC:

Mr. Otto – The Climate Action Task Force sub-committee watershed – the recommendations coming from there will be quickly approved by the sub-committee tomorrow. It is basically dealing with the Arroyos in the watershed. The second thing recommended is to implement different measures for aqua re-storage recharge. Third thing is creating a model neighborhood for different community gardens and water infiltration measures and the fourth is wastewater re-use.

Mr. Roth asked if this sub-committee could make a presentation to the WCC once action is taken. Mr. Otto said he felt that was a great suggestion and believes that they would and to keep in mind that Councilor Ives would be bringing the recommendations back to the WCC members.

Ms. Randall announced that the Climate Action Task Force will meet from 4 PM - 6 PM this coming Thursday, May 14th at the Railyard City offices.

NEXT MEETING – TUESDAY, JUNE 9, 2015

ADJOURN

There being no further business to come before the Water Conservation Committee, the meeting was adjourned at 5:40 pm

Signature Sheet:


Lisa Randall, Vice Chair



Fran Lucero, Stenographer

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 

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

DATE: May 26, 2015

SUBJECT: 45th Monthly Update on Drought and Water Resource Management

ESA/Silvery Minnow Update

There are no new updates on endangered species related to our water supply (e.g., silvery minnow, SW willow fly catcher, yellow billed cuckoo, etc.). River and wetland conditions are still expected to be challenging unless significant monsoonal activity occurs. All resource agencies will attempt compliance with the prevailing Biological Opinion.

CURRENT UPDATE – GENERAL WATER RESOURCE MANGEMENT

As the Committee/Board is aware, our region is still suffering through a prolonged drought. Our region has gone through four consecutive years of record drought and heat, and it appears that we are in our fifth year of drought – albeit drought conditions have eased slightly. Absent significant monsoonal activity, the drought is likely present significant challenges to all water purveyors, utilities, and irrigators going forward into the rest of this water-year.

The most recent May 15th NOAA ENSO update states that:

ENSO- (El Nino) conditions continue to improve with increasing equatorial sea surface temperature (SST) anomalies continuing across the Pacific Ocean. There is an approximate 90% chance of El Nino conditions will continue through summer 2015.

El Niño continued for a third straight month, with no signs of weakening or dissipating. Forecasts keyed in on persistent sea surface temperature (SST) anomalies along with weakening trade winds, ongoing convective activity, and El Niño-related ocean-atmosphere coupling. If these conditions continue, we are likely to see the effects of a moderate El Niño event—or stronger if

conditions continue to strengthen. Spring forecasts have a higher degree of uncertainty, owing to the so-called spring predictability barrier, a likely source of vacillations in recent forecasts.

Current forecasts offer a consistent and bullish forecast compared to last month, when they were integrating mixed signals regarding the strength of El Niño. On May 15, the NOAA-Climate Prediction Center (CPC) extended its El Niño advisory with a 90 percent chance that El Niño will continue through summer 2015, and an 80 percent chance the event will last through 2015.

It is worth noting that 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. Supply from these groundwater and surface water sources are expected to be adequate in meeting local demands. The City also has a considerable amount of SJCP water stored ("banked from previous years") in reservoirs upstream from the BDD diversion, and that water could be called for if needed over the coming 2 or 3 years.

LOCAL CONDITIONS

Source of Supply Utilization Summary

April 2015

City Wells	17.97mg/m	55.14af/m
Buckman Wells	76.63mg/m	235.17af/m
CRWTP	136.76mg/m	419.71af/m
BRWTP	193.72mg/m	594.53mg/m
Other Wells(Osage, MRC, etc)	0.00mg/m	0.00af/m

Upper Santa Fe River/CRWTP

	Total Combined Reservoir Level	Santa Fe Snow Gage	Reservoir Inflow
May 25, 2015	14.90%	34.00 inches	22.09MGD
5-Year Average for This Date (2010 – 2014)	54.64 %	8.0 inches	8.98 MGD

As of May 25th, 2015 total combined storage in Nichols and McClure reservoirs is 14.9% of total (or about 575 acre-feet of storage out of 4,000 acre-feet of capacity). Some flows have been by-passed or released due to construction on the new intake facilities and the start of irrigation season. Inflows are expected to continue for the near future and so the reservoirs have been managed to allow for water treatment plant production, active construction, irrigation, and draining/drying.

Buckman Regional Water Treatment Plant (BDD)

Flows in the Rio Grande are relatively high for this time of year (earlier than normal runoff), and turbidity has been generally good. The BDD has been able to divert and treat some limited amount of water but was off-line for about 3 weeks for repairs/maintenance to the diversion structure.

REGIONAL CONDITIONS

Rio Grande Basin

Surface flows in the Rio Grande and its tributaries through mid-May have been relatively good. However, storage levels in regional reservoirs are still very low (see attached figure). There was very little carry-over storage from 2014 into 2015. There are no new updates regarding Wild Earth Guardians legal actions or endangered species issues.

San Juan Basin

It should be stressed that, conditions could significantly worsen for San Juan Chama Project deliveries this coming year, if the drought persists, due to a lack of carry-over storage in Heron from last year to this year. Heron Reservoir is currently at a very low level. Recent estimates by the BoR suggest that the deliveries from the San Juan-Chama Project should be about 30%- 40% of normal firm yield, but there has been a series of recent rain/snow events in the basin, so these figures will likely be revised upward when the new data is release next month.

Rio Grande Water Fund/Watershed Management Update

The Rio Grande Water Fund Charter will be going before Santa Fe City Council for approval in early June, 2015.

Online Resources

Portions of the information provided in this figure can be accessed at the Natural Resources Conservation Service

Arizona: <http://nrcs.usda.gov/19ec2Bdd>

New Mexico: http://www.wcc.nrcs.usda.gov/glbmr/esv_rpl

pl7atlat-new_mexico

Notes

The map gives a representation of current storage for reservoirs in Arizona and New Mexico. Reservoir locations are numbered within the blue circles on the map.

Corresponding to the reservoirs listed in the table. The cup next to each reservoir shows the current storage (blue fill) as a percent of total capacity. Note that while the size of each cup varies with the size of the reservoir, these are representational and not to scale. Each cup also represents last year's storage (dotted line) and the 1961–2010 reservoir average (red line).

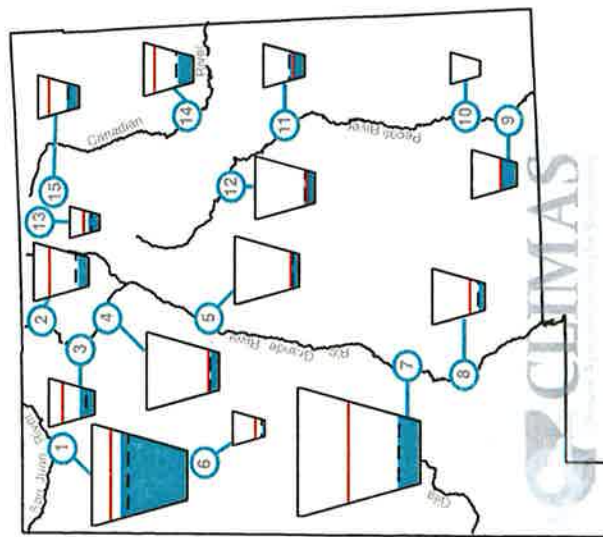
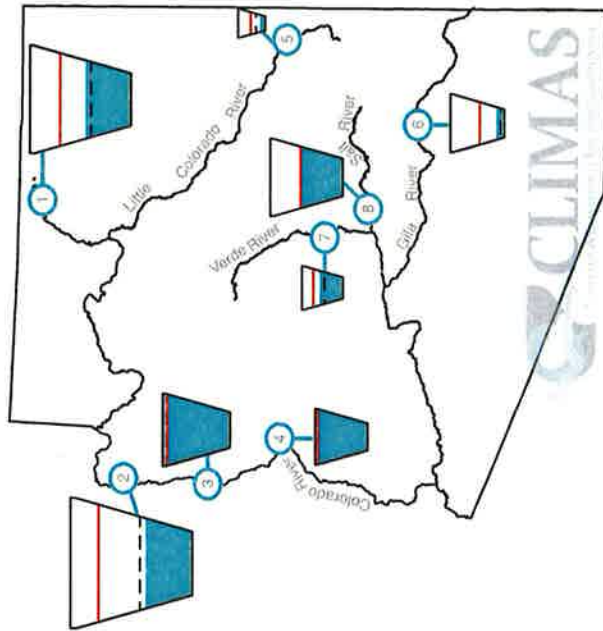
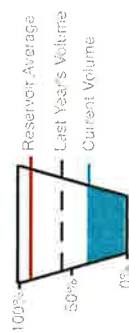
The table details more exactly the current capacity (listed as a percent of maximum storage). Current and maximum storage are given in thousands of acre-feet for each reservoir. One acre-foot is the volume of water sufficient to cover an acre of land to a depth of 1 foot (approximately 325,851 gallons). On average, 1 acre-foot of water is enough to meet the demands of 4 people for a year. The last column of the table lists an increase or decrease in storage since last month. A line indicates no change.

These data are based on reservoir reports updated monthly by the National Water and Climate Center of the U.S. Department of Agriculture's Natural Resources Conservation Service (NRCS).

Reservoir Volumes

DATA THROUGH APR 30, 2015

Data Source: National Water and Climate Center, Natural Resources Conservation Service



Reservoir	Capacity	Current Storage*	Max Storage*	One-Month Change in Storage*
1. Lake Powell	45%	10,845.9	24,322.0	-71.1
2. Lake Mead	38%	9,917.0	26,159.0	-502.0
3. Lake Mohave	95%	1,722.6	1,810.0	29.9
4. Lake Havasu	94%	584.2	619.0	6.3
5. Lyman	17%	5.0	30.0	0.2
6. San Carlos	14%	113.3	875.0	-19.1
7. Verde River System	55%	158.5	287.4	-50.0
8. Salt River System	57%	1,155.0	2,025.8	8.5

*KAF: thousands of acre-feet

Reservoir	Capacity	Current Storage*	Max Storage*	One-Month Change in Storage*
9. Navajo	59%	1,170.5	1,956.0	20.1
10. Herson	18%	70.5	400.0	2.9
11. El Vado	32%	61.6	190.3	24.3
12. Abiqui	11%	128.1	1,132.5	-4.4
13. Cochiti	10%	45.5	491.0	-0.2
14. Bluewater	6%	12.3	38.5	-0.1
15. Elephant Butte	18%	598.3	2,135.0	35.2
16. Capatzo	11%	35.3	332.0	-0.8
17. Lake Avalon	35%	1.4	4.0	0.1
18. Brantley	7%	73.5	1,008.2	-11.4
19. Sumner	35%	36.0	102.0	-9.6
20. Santa Rosa	17%	74.4	438.3	3.2
21. Costilla	38%	5.7	16.0	0.9
22. Conchos	30%	75.6	254.2	-8.8
23. Eagle Nest	28%	22.4	79.0	1.9

*KAF: thousands of acre-feet

March Southwest Climate Outlook

Online Resources

Figure 1&2

NOAA/NWS - Advanced Hydrologic

Prediction Service

<http://water.weather.gov/precip/>

Figure 3

High Plains Regional Climate

Center

<http://www.hprcc.unl.edu/>

Figure 4

National Climatic Data Center

<https://www.ncdc.noaa.gov/>

Figure 5&6

Natural Resources Conservation

Service

<http://www.wcc-nrcc.usda.gov/gis/snow.html>

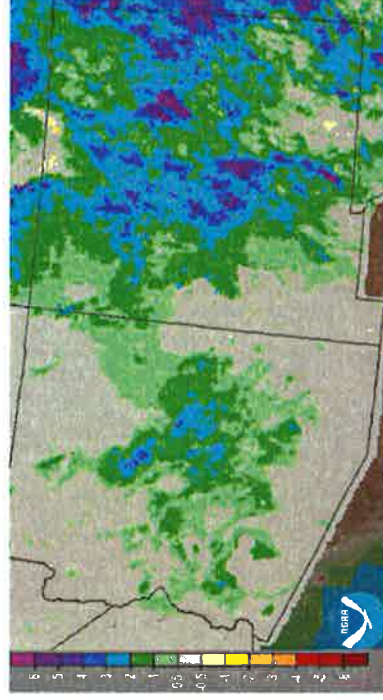


Figure 1: Departure from Normal Precipitation - Past 30 Days

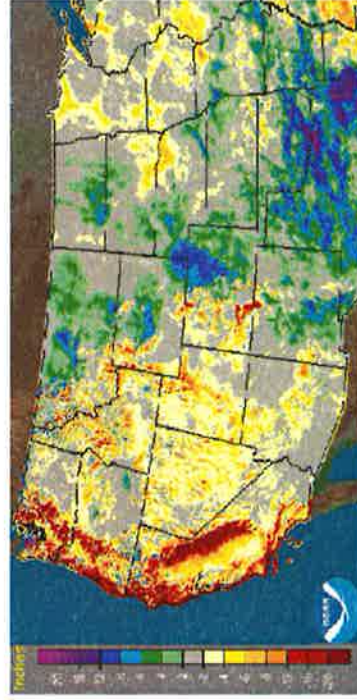


Figure 2: Departure from Normal Precipitation - Since Oct 1

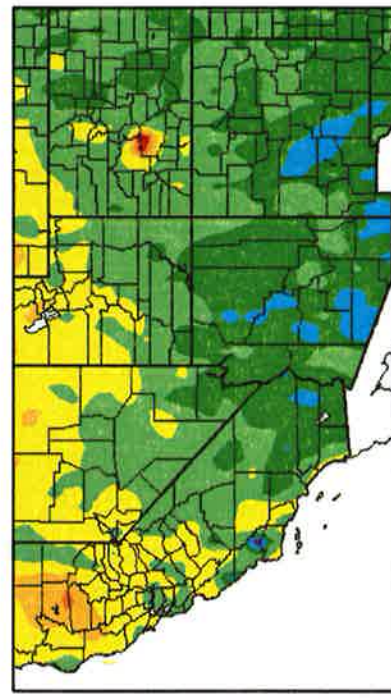


Figure 3: Departure from Normal Temp (F) - Apr 21 - May 20, 2015

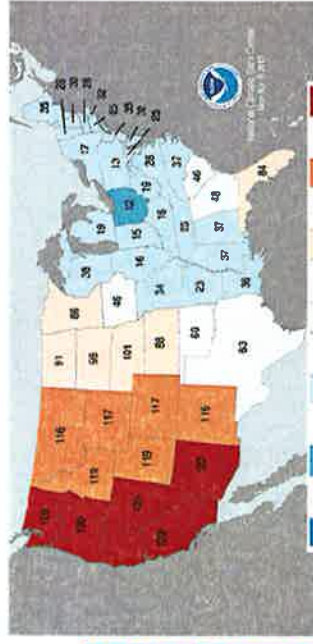


Figure 4: Statewide Average Temperature Ranks - Oct 2014 - Mar 2015

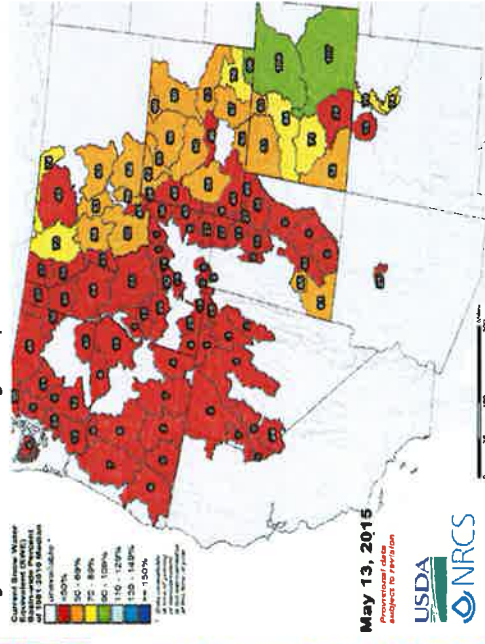


Figure 5: Percent of Snow Water Equivalent (SWE) by Basin

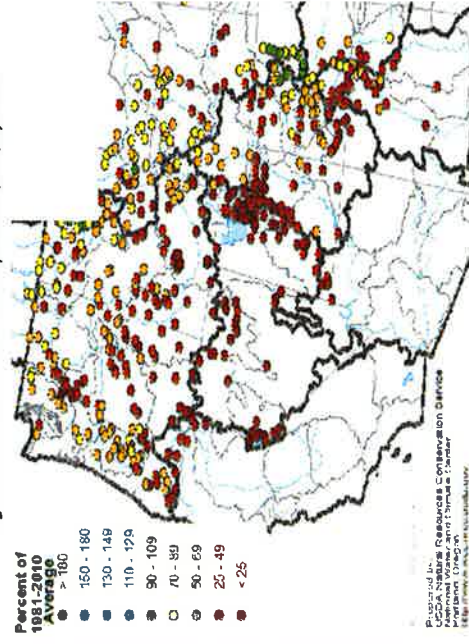


Figure 6: Spring/Summer Streamflow Forecasts



READ ONLINE: CLIMAS.ARIZONA.EDU/SWCO/PERIODICALS

City of Santa Fe, New Mexico

memo

Date: May 21, 2015

To: Water Conservation Committee

From: Caryn Grosse, Water Conservation Specialist

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

RE: 2014 Water Conservation Rebates

Background:

Incentives for use of water efficient fixtures and appliances are vital components of any water conservation program. The rebates and incentives offered by the City of Santa Fe have changed a number of times over the years to adapt to changes in technology, funding, and customer demand.

Summary of Rebate Programs:

From 2004 through 2009, the Water Conservation Office offered incentive rebates for the purchase of water-efficient appliances including hot water recirculators, high efficiency clothes washers, and rainwater collection barrels. Conserved water savings for the years 2004-2009 totaled 67.26 Ac/Ft.

Beginning January 1, 2010, a new and expanded incentives and rebates program was incorporated into the Water Bank, which tracks conserved water to offset new development. That program included high-efficiency toilets, high-efficiency clothes washers, water free urinals, and rainwater harvesting. Due to the popularity of the program, the ARRA funding was quickly depleted and the program ended in July 2010. During that period, the water conservation rebates processed resulted in conserved water savings of 32.46 acre-feet (Ac/Ft).

In 2011, a program was reinstated for the same device types as the 2010 program, with the funding being provided by an annual water conservation fee charged to all customers of the Water Division. The incentive amounts were reduced from the 2010 program, however the rebate program still remains one of the most generous in the country.

- 2011 rebates resulted in conserved water savings of 9.04 acre-feet.
- 2012 rebates resulted in conserved water savings of 7.15 acre-feet.
- 2013 rebates resulted in conserved water savings of 6.61 acre-feet.

The table below summarizes the device types, quantity of rebates, amount per rebate and water savings in acre-feet which were approved in 2014.

2014

Commercial Use	Qty of Rebates		\$ Amount per Rebate	Water Savings In Acre-Feet per Rebate	\$ Amount for all Rebates	Water Savings In Acre-Feet for Water Bank	
Flushometer Valve HET			\$500.00	0.033600	\$0.00	0.0000	
Tank Type HET	7		\$250.00	0.016800	\$1,750.00	0.1176	
Hotel/Motel HET			\$125.00	0.002200	\$0.00	0.0000	
Water Free Urinal	5		\$500.00	0.042000	\$2,500.00	0.2100	
HE Clothes Washer replacement for top loading washer	2		\$350.00	0.023300	\$700.00	0.0466	
HE Clothes Washer exchange for any front loading Clothes Washer			\$150.00	0.008800	\$0.00	0.0000	
Sub Total					\$4,950.00	0.3742	acre-feet
Residential Use							
HET Residential	532		\$175.00	0.005300	\$93,100.00	2.8196	
HE Clothes Washer replacement for top loading washer	103		\$350.00	0.023300	\$36,050.00	2.3999	
HE Clothes Washer exchange for any front loading Clothes Washer	19		\$150.00	0.008800	\$2,850.00	0.1672	
Rain Barrel 50-99 g	55		\$12.00	0.000800	\$660.00	0.0440	
Rain Barrel 100-199 g	13		\$25.00	0.001500	\$325.00	0.0195	
Rain Barrel 200-299 g	2		\$50.00	0.003100	\$100.00	0.0062	
		Gallons					
Water Harvesting	4	32800	\$0.25	0.000015	\$8,200.00	0.4920	
Sub Total					\$141,285.00	5.9484	acre-feet
Total					\$146,235.00	6.3226	acre-feet

New Programs:

The Water Conservation Office has recently implemented some new programs for water saving devices and processes.

Irrigation Efficiency Rebates

A pilot program for irrigation rebates was implemented in 2014. This program includes evaluations, sensors and smart (weather based) controllers. To qualify for a rebate the City's water customer must have an existing irrigation system (not a new install) and must have an irrigation efficiency audit completed by a certified Qualified Water Efficient Landscaper (QWEL). Irrigation equipment upgrade

rebates range from \$40 to \$750 depending on device type. No qualifying irrigation applications were made in 2014.

Commercial Rebates

Ordinance # 2013-27 was approved June 2013 to update the previous Commercial Processes Rebate Ordinances to allow commercial rebates without an end or an expiration date. Other revisions to the ordinance include requiring a pre-application meeting, annual monitoring, and post inspection to verify equipment and water savings achieved. Some eligible fixtures and devices include:

- Replacement of water-cooled equipment with new air-cooled equipment
- Process water reclamation systems
- Elimination of water intensive phases of industrial processes
- Cooling tower modifications
- Industrial laundry equipment upgrades or reuse systems
- Large-scale irrigation improvements to existing landscapes (monitoring of water savings will be two watering seasons)

As of Fall 2014, there have been two pre-application meetings but no formal applications as of yet. The program will be evaluated to determine if the upfront capital costs incurred by the customer to receive a rebate are discouraging customers from applying. A possible solution may be to determine whether some of the incentive should be received in partial payments throughout the installation of the water saving device or fixture.

Limitations of Use:

The information contained in this memo may not be used for any commercial purpose unless the purpose and use is approved in writing by the City of Santa Fe.

City of Santa Fe, New Mexico

memo

Date: May 21, 2015
To: Public Utilities Committee
From: Rick Carpenter, Water Resources and Conservation Manager
Via: Nick Schiavo, Public Utilities Department and Water Division Director
RE: Water Conservation Office Spring Update

The City of Santa Fe Water Conservation Office offers a variety of outreach programs targeted at the many different water users and customers within the City. Programs vary in scale and some smaller scale non-reoccurring programs are not listed.

Spring 2015 Events

Renewable Energy Day:

February 27, 2015

The theme for the third annual Renewable Energy Day was the Water-Energy Nexus. The Water Conservation Office and Sustainable Santa Fe shared a literature table at the Roundhouse for this event.

Santa Fe Home Show:

March 14-15, 2015

The Water Conservation Office joined Environmental Services Division, Sustainable Santa Fe and Santa Fe County to staff a table at the Santa Fe Area Home Builders Association Home Show.

Fix A Leak Week, March 16-20, 2015:

This was the City of Santa Fe's fifth year to participate in the national Fix A Leak Week 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 silent-movie roaring 20's villainess known as the Bad Flapper.

The Bad Flapper's gang (Water Conservation Office staff) handed out new toilet flappers to 64 customers who brought in their account information on Flapper Friday, March 20, at the Water Division.

12th Annual Children's Poster Contest:

Entry Deadline: December 5, 2014

Judging: January 15, 2015

Presentation of Awards: March 25, 2015 at City Council Meeting

The theme was "*How Water Connects Us.*" The Water Conservation Office received 421 entries this year! Winners of the poster contest receive a trophy and a prize package that includes conservation kits for saving water at home. The winners will also be featured in next year's Water Conservation Calendar, with the grand prize winning poster on the cover and on the side of a bus.

The calendar resulting from each year's poster contest is a favorite in the Santa Fe community, with 5,000 of the 2015 calendars distributed.



13th Annual Children's Water Fiesta:

Teacher's meeting: March 19, 2015

Event: April 8-9, 2015

Santa Fe Public Schools 4th grade students came for a fun-filled day of learning about water at the Santa Fe Community Convention Center! Fiesta activities covered a wide range of core curriculum areas including language arts, math, science, social studies, visual arts, and health & wellness. Presenters demonstrated water related facts, concepts and values through fun, hands-on learning activities.

2015 Water Fiesta results:

- 517 students from the Santa Fe Public School (SFPS) system attended, 12 classes each day
- Schools attending: Amy Biehl (3 classes), Aspen (2), Atalaya (1), Carlos Gilbert (3), EJ Martinez (2) El Dorado (3), Kearny (3), Gonzales (3), Ramirez Thomas (4)
- 16 organizations participated; providing presenters and other volunteers, space and parking.
- 13 different activities were presented each day



Earth Day Events:

The Water Conservation Office participated in two Earth Day events:

- Genoveva Chavez Community Center, April 18, Literature Table, 9:30 am – 2 pm
- The Railyard, April 18, Workshop: Basic Home Water Audit, 10 am – 1 pm

CommUNITY Day:

The Water Conservation Office had a table at CommUNITY Day, May 9, 10am-3pm

Fishing Derby:

The Water Conservation Office assisted with the Children's Fishing Derby, May 16, 8 am-Noon

Project WET Workshop:

June 2, 2015

The Water Conservation Office and the Environmental Education Association of New Mexico will be co-hosting a Project WET (Water Education for Teachers) Workshop for teachers and environmental educators to familiarize them with the Project WET Curriculum Guide 2.0. Participants in this event will receive their own copy of the Curriculum Guide, as well as a certificate for 6 hours of training.

Marketing and Media

Launch of 2015 Public Outreach Campaign “It’s Not Coming Back”

May 5, 2015

The Santa Fe Water Conservation Office launched its 2015 seasonal public outreach ad campaign “It’s Not Coming Back.” The campaign encourages water saving behavior through a series of vintage pictures depicting the tagline “It’s not coming back,” emphasizing unlimited use of water is a thing of the past.

- Radio commercials
- Ads in monthly print publications
- savewatersantafe.com news

Media Advertisements and Articles:

- 250 monthly PSA Prime Drive Time messages on 6 Hutton Stations including Spanish language station
- Weekly 30 minute radio show on KSWV, PSA’s, and commercials
- Weekly PSA’s on KSFR for winterization, resolve to save, indoor conservation, fix a leak, time of day watering reminder
- Internet advertisements on santafe.com, Santa Fe Hometown News, Santa Fe New Mexican
- 5,000 Water Conservation Calendars distributed around the community and the state
- Print media: Green Fire Times, Santa Fe Hometown News, Round the Roundhouse, Santa Fe Reporter, Tumbleweeds, 2015 Annual Manual, Santa Fe New Mexican
- Water Supply Story

Press Releases:

- 2015 Starts with Water Shortage, Again - February
- Flapper Friday Photo Op - March
- Fix a Leak Week, Flapper Friday - March
- Mayor’s Challenge for Water Conservation - March
- 12th Annual Poster Contest Winners Announced
- Children’s Water Fiesta – April
- City Outdoor Water Restrictions Begin May 1 – May
- It’s Not Coming Back Ad Campaign – May
- 2015 Summer Outdoor Irrigation Rebate Programs - May
- Gallons Per Capita Per Day Announcement- Pending

Media coverage articles:

New York Times

- Water Pricing in Two Thirsty Cities: In One, Guzzlers Pay More, and Use Less

NPR

- Santa Fe Cuts Water Consumption By Imposing Tiered Pricing Model

Associated Press – State and National Wire Service

- **WFAE 90.7** “Santa Fe Cuts Water Consumption By Imposing Tiered Pricing Model”
- **WGBH News** “Santa Fe Cuts Water Consumption By Imposing Tiered Pricing Model”

KOAT TV

- Time of Day Water Restrictions

Santa Fe New Mexican

- City Report Helps Residents Monitor Daily Water Use (front page)
- Our View: Save Water Like It’s Second Nature (Mayor Challenge)
- Editorial – Mayor’s Water Conservation
- Editorial – Speak out to influence Santa Fe water future

- Editorial – Our view: California isn't up to handling water crisis
- Virtual water: an emerging science
- Water Energy Nexus: Pumping uphill for free
- Water Energy Nexus: City must continue, expand water conservation efforts
- Saving energy and money is easy
- Our Water Quality: City, residents address supply concerns
- Santa Fe starts seasonal water restrictions Friday

Albuquerque Journal North

- Santa Fe water rates among highest, survey shows, but usage is low
- Kids use art to think about saving water

Round the Roundhouse

- Resolve to Save
- Indoor Conservation
- QWEL Outdoor Irrigation Rebate

Web and Social Media:

- Santa Fe New Mexican's YouTube video, "13th annual Children's Water Fiesta"
- Water Conservation website www.savewatersantafe.com
 - 11,165 hits/web visits between November 1, 2014 and May 20, 2015
 - Most downloads are for rebate forms
- City Highlights Newsletter – Mayor's Challenge for Water Conservation, Outdoor Watering Restrictions, It's Not Coming Back public outreach campaign.
- City of Santa Fe Facebook and Twitter posts – Mayor's Challenge for Water Conservation, Outdoor Watering Restrictions, It's Not Coming Back public outreach campaign.
- City of Santa Fe Water Division Website
- Banner Ads www.santafehometownnews.com
- Banner Ads edible Santa Fe www.ediblesantafe.com
- Banner Ads www.Santafe.com