



# Agenda

**SANTA FE WATER CONSERVATION COMMITTEE MEETING**  
**CITY HALL – 200 LINCOLN AVE.**  
**CITY COUNCILOR'S CONFERENCE ROOM**  
January 8, 2019  
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 FROM THE DECEMBER 13, 2018 MEETING

**CONSENT AGENDA:**

6. UPDATE ON CURRENT WATER SUPPLY STATUS (Andrew Erdmann, Water Conservation Specialist Senior, [paerdmann@santafenm.gov](mailto:paerdmann@santafenm.gov), 955-4219))

**INFORMATIONAL ITEMS:**

7. 2018 FINAL SCORECARD AND UPDATED 2019 WATER CONSERVATION SCORECARD (Christine Chavez, Water Conservation Manager, [cychavez@santafenm.gov](mailto:cychavez@santafenm.gov), 955-4219)
8. UPDATE ON THE NEXT GENERATION WATER SUMMIT (Christine Chavez, Water Conservation Manager, [cychavez@santafenm.gov](mailto:cychavez@santafenm.gov), 955-4219 and Doug Pushard [doug@kuelwater.org](mailto:doug@kuelwater.org))

**UPDATES FROM SUBCOMMITTEE GROUPS:**

9. 5 YEAR WATER CONSERVATION PLAN (Christine Chavez, Water Conservation Manager, [cychavez@santafenm.gov](mailto:cychavez@santafenm.gov), 955-4219 and Stephen Wiman [skwiman@icloud.com](mailto:skwiman@icloud.com))
10. BUILT ENVIRONMENT (Christine Chavez, Water Conservation Manager, [cychavez@santafenm.gov](mailto:cychavez@santafenm.gov), 955-4219 and Bill Roth [sr.billroth@gmail.com](mailto:sr.billroth@gmail.com))
11. ICI (Christine Chavez, Water Conservation Manager, [cychavez@santafenm.gov](mailto:cychavez@santafenm.gov), 955-4219 and Scott Bunton [sbunton2713@hotmail.com](mailto:sbunton2713@hotmail.com))

**MATTERS FROM PUBLIC:**

**MATTERS FROM STAFF:**

**MATTERS FROM COMMITTEE:**

**NEXT MEETING – (Councilor's Conference Room):** TUESDAY, FEBRUARY 12, 2019

**CAPTIONS:** Due BY 3:00 pm, JANUARY 28, 2019

**PACKET MATERIAL:** DUE BY 3:00 pm, JANUARY 30, 2019

**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.

RECEIVED AT THE CITY CLERK'S OFFICE

DATE: 12/28/2018

TIME: 4:32 PM

**SUMMARY OF ACTION  
 SANTA FE WATER CONSERVATION COMMITTEE MEETING  
 CITY HALL - 200 LINCOLN AVE  
 CITY COUNCILOR'S CONFERENCE ROOM  
 TUESDAY, JANUARY 8, 2019, 4:00 PM**

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**SANTA FE WATER CONSERVATION COMMITTEE MEETING  
CITY HALL - 200 LINCOLN AVE  
CITY COUNCILOR'S CONFERENCE ROOM  
TUESDAY, JANUARY 8, 2019, 4:00 PM**

**1. CALL TO ORDER**

The meeting of the Santa Fe Water Conservation Committee was called to order at 4:00 pm by Lisa Randall, Chair, on Tuesday, January 8, 2019 at City Hall, the City Councilor's Conference Room, Santa Fe, New Mexico.

**2. ROLL CALL**

**MEMBERS PRESENT**

Lisa Randall, Chair  
Tim Michael  
Doug Pushard  
Ken Kirk  
Stephen K. Wiman  
Stephen Schmelling  
David Carlson  
Robert Coombe  
Bill Roth

**MEMBERS ABSENT**

Councilor Carol Romero-Wirth, Excused  
Scott Bunton, Excused

**OTHERS PRESENT**

Christine Chavez, City of Santa Fe, Water Conservation Manager  
Andy Otto, Santa Fe Watershed Association  
Alan Hook, City of Santa Fe, Water Department  
Andrew Erdmann, City of Santa Fe, Water Conservation  
Elizabeth Martin, Stenographer

**3. APPROVAL OF AGENDA**

**MOTION** A motion was made by Mr. Coombe, seconded by Mr. Michael, to approve the agenda as presented.

**VOTE** The motion passed unanimously by voice vote.

**4. APPROVAL OF CONSENT AGENDA**

**MOTION** A motion was made by Mr. Michael, seconded by Mr. Kirk, to approve the consent agenda.

**VOTE** The motion passed unanimously by voice vote.

**5. APPROVAL OF MINUTES  
DECEMBER 13, 2018**

**MOTION** A motion was made by Mr. Michael, seconded by Mr. Wiman, to approve the minutes as presented.

**VOTE** The motion passed unanimously by voice vote.

**CONSENT AGENDA**

**6. UPDATE ON CURRENT WATER SUPPLY STATUS**

Approved on consent.

**INFORMATIONAL ITEMS**

**7. 2018 FINAL SCORECARD AND UPDATED 2019 WATER CONSERVATION SCORECARD**

Ms. Chavez reported that both scorecards are in the packets. 2018 was finalized at our last meeting. 2019 is what we are going to start this year off with. We want to make sure we answer any questions you may have and that we add your feedback. We are changing the format to an easier one for us to work with.

Mr. Coombe noted that he found a couple of typos including dates that were not changed.

Ms. Chavez said we will proof it one more time.

Chair Randall asked was it just a software platform that was challenging.

Ms. Chavez said yes, Caryn was the only one who knew how to do it.

Mr. Schmelling noted a date change.

Ms. Chavez stated we are reporting once a month to the PUC Committee. Could we change that requirement to every quarter and she will include updates in the

packets. We would like to do quarterly updates as a presentation to PUC. Is the Committee okay with quarterly updates.

Mr. Coombe said he is okay with that as long as you tell us if you run aground on something.

## **8. UPDATE ON THE NEXT GENERATION WATER SUMMIT**

Mr. Pushard handed out an update of the agenda which is hereby incorporated into these minutes as Exhibit "1". We are six months away. Please send him an email if anyone has any questions. Registration is open and the website is open. We will have a charrette again, but it will be a design charrette. Builders and architects will be able to make an appointment to have their plans reviewed by water experts. The Summit is on Wednesday, Thursday and Friday with Friday being the public day. On Friday we will also have a charrette half day tract. What kind of jobs are available in the water business. The Summit is the 12<sup>th</sup>, 13<sup>th</sup> and 14<sup>th</sup> of June. We will likely be doing pre-Summit workshops. Also we are going to do workshops during the Summit which is a change. The State Environment Department would like to run two workshops during the Summit. One Thursday and one on Friday and we will do one for the Construction Industries Division (CID) on chapter 16 and 17 of the plumbing code. We have not announced the keynote for Wednesday. The whole idea is climate change in economics. There will be a panel session talking about what businesses are doing because of climate change on Wednesday. Ken helped very much on the Thursday keynote. We will have Meow Wolf and will do some things in the courtyard. It will all be at the Convention Center.

Mr. Pushard thanked Christine and the City for all the help and Ken on the speaker. He knows we will have some volunteers out of this group. He is looking for input or ideas of things that might be missing from the agenda. We have five or six openings in the agenda.

Mr. Michael asked is this on the web.

Mr. Pushard said not yet. It will be in two weeks or so. If you send it out let them know it is a draft.

Mr. Pushard said Jonah from EPA will be making two presentations. He is working on water budgeting. We are working with Ralston at NMSU. All the water auditing tools have a water budgeting component. There are ten of them and they are all different.

Mr. Roth asked is the idea to have a standard.

Mr. Pushard answered no, they all have merits, but ten is the wrong number.

Three or four would be good. Boulder uses their water budget to set their water rates.

Chair Randall said when we were designing for Milagro Middle School and we were designing the cistern we asked of the landscape architect what the water usage and irrigation season would be regarding water needs. He gave us a guess.

Mr. Pushard said we have a local class he can attend to learn to answer that question. That is part of the problem we have. There are two classes they could go to in order to answer that question. You go to another city and they use a different model. If you had a national landscape architectural firm they would have to know all ten. Here in Santa Fe we have three different water budgets and may end up having four or five. Even within the City we have a problem.

Mr. Pushard said we are installing Phyn+ units in restaurants now. It tells you if you have a leak and will shut off the water to your house automatically. It will tell you where the leak is as well. It is installed where the water comes into the house. It is artificial intelligence and looks at flow changes and water patterns. The cool thing is we are installing in restaurants, but there is no such appliance for restaurants. We really don't know how much water is used there. The retail cost is \$895 to \$900. He has one client who has it on his irrigation system. It tells him how much water is used on each zone. It is an app. We will be talking about the data at the Summit. It will be the first in the United States. The City is helping fund it. Uponsor is the Phyn+ company and they are paying for the installations as a pilot. It will give us about five months of data.

Chair Randall asked will you bring some of that data back here in the future.

Mr. Pushard said it is public data and will be presented at the Summit and will be presented here as well. We won't name names on the data. We will name the restaurant that participate. The City will see the reports.

Ms. Chavez said this is an extension of the restaurant pilot. We are still trying to figure out a way to get past the metering issue. This partnership is between the City and us, the Green Chamber and Uponsor. It may be something we incentivize. This will be covered in the subcommittee.

Mr. Pushard said there is no mechanical wheel in it. It is sonar. It senses water going both directions. It is insensitive to anything in the water and it now has freeze protection. It will send you an alert and can shut off the water at your house to prevent freezing. It has a lot of cool features. It is the only product like it. There are similar products, but this product is accurate down to a fraction of an ounce.

Chair Randall asked what is the installation cost.

Mr. Pushard said a typical install is one to three hours. The unit is \$900. Then it takes one to three hours to get it set up to work. For high end houses and commercial

it is very affordable.

Mr. Kirk asked what is the comparison between this and Eye On Water.

Mr. Pushard said Eye On Water has a twenty four hour delay. It has a mechanical wheel so there are sediment issues over time. The cost is different and they freeze.

Ms. Chavez said the big thing is that restaurant owners can't sign up for Eye On Water because they don't have their own meters.

Chair Randall said this is exciting.

Mr. Pushard said the Summit is a networking event and brings in the best of the best where they can meet people and figure out how to do programs.

Mr. Roth asked would it be worthwhile to do a follow up on the presentations from last year.

Mr. Pushard said he will think about that. He is not sure how we would do that in a way that would be helpful. We have 40 presentations at each Summit.

Mr. Roth said well maybe not every presentation. The nut and bolt ones.

Chair Randall thanked Mr. Pushard.

## **UPDATES FROM SUBCOMMITTEE GROUPS**

Ms. Chavez thanked everyone for coming together after the holidays. We did have five areas we were going to work in. We were only able to meet on these three. The ICI will be more inclusive following this meeting. We will meet on the others within two weeks.

### **9. 5 YEAR WATER CONSERVATION PLAN**

Mr. Wiman reported that they met last Friday and put together a preliminary agenda which is more permanent now. He, Tim and Andrew got together and took Bill's suggestion to put some slides on the website. We will present more information in person that way. We will be meeting again. We have picked a date. Patricio secured the Genoveva Chavez Center for March 2<sup>nd</sup> from 10:00 am to 3:00 pm. We will have



the informational items we talked about and possibly some work groups. We will be going over that on Friday.

Ms. Chavez said the biggest thing was to kick off the five year plan. We wanted to have one background session to get ahead of the questions if possible. That is what is happening now. Then public input sessions will follow. We will have printed material at the meeting as well.

Ms. Chavez said the agenda stuck to what the subcommittee decided on so we could create advertisements. We will provide food and present throughout the lunch hour as well. We have divided the information into four bigger topics and then will focus the public input sessions that follow on those four. We tried to make it specific to what we are going to include in the five year plan. The subcommittee meeting will be this Friday from 1:00 pm to 3:00 pm. We will go through the agenda.

Mr. Pushard asked would it be possible to send a link out to all Committee members to the last year five year plan so we have an idea of what was in it before.

Ms. Chavez said we will send out the link to the dropbox.

Mr. Coombe said perhaps we should speak a bit about the overall timeline for the plan. Phase two should be to push information out on the web and wherever else we can push it followed by the information gathering phase of three months of public meetings and responses on the web and talks to stakeholders groups. This meeting is a singular effort in a much broader approach.

Ms. Chavez said yes. Then we will have a draft that follows technical report 53. We are going to subcontract with Corella to help us align the information that is relevant. We wanted to have a draft written at the end of the public input process to be ready for the Summit. It will be another opportunity to get input and fine tune it. We will circulate that draft to the Committee.

Mr. Pushard said we do have the entire convention center so if you wanted to do special sessions the facility is there. Friday would be more local. If you want to get input you could.

Ms. Chavez said Councilor Romero-Wirth, Commissioner Anna Hansen, Shannon Jones and others met yesterday to discuss the next City/County meeting. They want to focus on the basin study and two of the recommendations. Optimizing reuse and bringing down the demand by conservation reducing the GPCD from 90 to 70 within a certain time frame. The issues are timely and highly sensitive. The meeting is tentatively scheduled for February 5<sup>th</sup>. We will confirm and send that out. The meeting will be from 5:00 pm to 7:00 pm. We don't have the venue yet. We will be using a County stenographer for this one. We are talking about possibly having another one in March. March might focus more on conservation.

## 10. BUILT ENVIRONMENT

Mr. Roth said we worked on possible focus statements. We chose these areas to concentrate on initially. We are going to meet with Melissia McDonald to get updates from her study. We would like to see an emphasis on a development review team to look at subdivisions and with Melissia to collaborate on a neighborhood project to identify drainage issues. We also want to dig into the water bank to see what changes or improvement could be made. We will meet with Katherine Mortimer as well.

Ms. Chavez said the idea is to hash out as much as we can in the subcommittee and then bring those ideas back to discuss with all of us. It will be the neighborhood pilot project.

Mr. Coombe asked is the demo project intended to be new construction.

Mr. Roth said no, we are thinking established neighborhoods. We could do both.

Mr. Coombe said the Sterling Ranch project.

## 11. ICI

Mr. Pushard said we met with a small team on the specific issue of getting the restaurant Resolution moving forward. We met on that as part of the pilot program. We are going to do a rebate specifically for restaurants. We have started drafting that Resolution. We will bring it to this Committee at the next meeting. We need to work through some issues on the Resolution with Christine. We will have it by the next meeting. The metering issue is related to landlords who get the water bill. We have an HOA model, but there are some problems with that program. We are trying to make some tweaks to that. We have to get landlords onboard in order to install some water savings items on the building. The other thing in discussion is the way the commercial program works now. They sign an agreement with the City and have to wait a year for us to determine if we are going to give them a credit. We want to review it to give them a portion of the credit up front.

Ms. Chavez said we want the Committee to fully understand how big this ICI project is. The Green Chamber is going to pick up a chunk of that work and there will be a training associated with this.

Mr. Pushard said we will be doing a class with a grant through Community College to fund a pilot class. The idea is to create accredited restaurant auditors. We will take the model we are using with WERS and other programs and use that. The first one will be the second week of April by invitation only. We are building the curriculum. For the second class the accreditation will occur right before the Water Summit. The materials are coming for four different sources and we have to create some of our own.

There are manuals that are pretty good. Bill Hoffman gave us his material. He has taught a class like this before. We are half way through the creation of the material. He and Amanda will teach the first class. Bill will come in and teach the second class. Carlos in Albuquerque is very interested in this program.

Mr. Coombe asked among the restaurants in the pilot study, 32, how many are on individual meters.

Mr. Pushard said less than 25%.

Ms. Chavez said five or six of them are in stand alone buildings.

Mr. Coombe said he is thinking of the total cost to have meters for every restaurant.

Mr. Pushard said one of the things we are working on with Andrew is we now give rebates based on water savings of the establishments. We propose and are working on language to allow us to do a Phyn+ based on a system wide perspective.

Mr. Coombe said if it can be used to monitor usage apart from leaks you want to stimulate different sorts of usage behaviors among restaurants. It could be a huge savings. Maybe pilot it some how.

Ms. Chavez said the good thing about the rebate as it currently exists is that it does not specify any specific technology.

Mr. Coombe said we have to get completed the notion of a rebate. Who gets the rebate. If there is a way to build incentive for the operator some how. That would be helpful.

Ms. Chavez said we did the pilot and uncovered the obstacles. We not only are looking at how to solve the problem we are looking at how to incentivize it. This a small piece of the pie when we look at ICI. The subcommittee will look at other things. It is a really big project.

Mr. Roth asked do we know how much water St. Vincents uses.

Ms. Chavez said we have talked about all the different ICI facilities.

Ms. Erdmann said they have a well, but we don't know how much they use.

Mr. Roth asked how did they manage to have a well.

Mr. Erdmann said he doesn't know that answer.

Ms. Chavez said we have a lot of work to do in ICI. We are barely touching the surface on ICI. It is about employee training as well. Bill Hoffman is coming in to train us. We need workforce to help us.

Mr. Pushard said he was amazed when we hired Lonnie to come in and do these audits. He was amazed how different the appliances are. The manual is highly deficient. There are simple things that we found such as swamp coolers use water. That is not in there. By doing pilot program and getting into the restaurant we learned a lot. We are moving away from device based rebates to performance based. We have not given you a good picture of everything that is going on in this. We should.

Ms. Chavez said forming the subcommittee was a start. We need to keep that bigger picture in mind. We are hoping for great ideas. Some from the public, but we also need to think about how to get there on our own. By 2055 dropping to 70 and how we do that in five year increments. It is a big drop. We will bring more information to you. We thank Doug for bringing this opportunity to us. We are learning so much in the process. We are fortunate to have the pilot in Santa Fe. The Summit is a great place to look at that data and talk about the pilot.

## **12. MATTERS FROM THE PUBLIC**

Mr. Otto said February 9<sup>th</sup> is Love Your River Day. We will have an event at Frenchy's Barn.

The Water Task Force was discussed.

Mr. Erdmann said he spoke to Shannon about that. He said they will be looking at structure for the rates. Specifically not just lower rates.

Chair Randall asked is there anything cheaper than what we have now. To lower invites waste.

Ms. Chavez said this was going to be brought up on Friday. We will have information on that. It would be great to have someone from the subcommittee on the Task Force.

## **13. MATTERS FROM STAFF**

Ms. Chavez said we have one more position to fill on staff. We put out a job description and got very little interest. We revised it to focus more on education and will readvertise it. Things are going well with Andrew on board. Thank you to all of you for being so responsive and meeting on short notice and for being passionate about the work you do. If you have any ideas about structure for sharing with everyone let her know.

**14. MATTERS FROM COMMITTEE**

Mr. Pushard said the State did release their water plan. It is on the OSE website. The New Mexico Drought Task Force, Patricio is a member. Have we gotten any report or feedback from them.

Ms. Chavez said he is not a member. He attended the meeting. She will follow up with him. The State water dialogue is focused on the State water plan this year. She will be attending and will bring back an update.

Mr. Pushard said Gretchen happened to be teaching a conflict resolution class to the water division. The first one was yesterday and the other one is tomorrow. There is an idea that came out of that you may want to consider, If we could give people who go out and shut off water meters something that they can hand out to irate customers of some of the programs we do offer it would be a nice thing to do. When we are putting warnings out we could give them something positive. Have Eye On Water on it. The second idea is if we could give them toilet tablets. Take a contentious situation and give them something. The staff can offer help.

Ms. Chavez said Patricio and Mario went to the class yesterday.


**15. NEXT MEETING  
FEBRUARY 12, 2019**

**16. ADJOURN**

There being no further business before the Committee the meeting adjourned at 5:30 pm.



Councilor Romero-Wirth, Chair



Elizabeth Martin, Stenographer