



Agenda

SANTA FE WATER CONSERVATION COMMITTEE MEETING
RAILYARD – ROUNDHOUSE CONFERENCE ROOM
500 Market Station, Suite 200
November 14, 2017
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 OCTOBER 17, 2017 MEETING

CONSENT AGENDA

6. UPDATE ON CURRENT WATER SUPPLY STATUS (Christine Chavez)
7. MONTHLY OVERVIEW OF SCORECARD PROGRESS (Christine Chavez)

INFORMATIONAL ITEMS:

8. PRESENTATION FROM SCOTT CANNING, HORTICULTURE AND SPECIAL PROJECTS DIRECTOR FOR THE SANTA FE BOTANICAL GARDEN (Scott Canning, Christine Chavez)
9. ENFORCEMENT PRESENTATION (Patricio Pacheco, Christine Chavez)
10. GPCD (Christine Chavez)
11. GROUP REPORTS FROM WATER CONSERVATION COMMITTEE WORKING GROUPS
 - A. GROUP 1 – Irrigation Subcommittee (No update)
 - B. GROUP 2 – General Education Program (Doug Pushard, Christine Chavez)
 - C. GROUP 3 – Marketing Outreach (Christine Chavez)
 - D. GROUP 4 – Water Conservation Codes / Ordinances / Regulation (Christine Chavez)
 - E. GROUP 5 – Grants (Bob Coombe) (No update)
 - F. GROUP 6 – Commercial (Christine Chavez)

MATTERS FROM PUBLIC:

MATTERS FROM STAFF:

MATTERS FROM COMMITTEE:

- COMMITTEE REPORT FROM THE RIVER COMMISSION (Justin Lyon, Christine Chavez)

NEXT MEETING – TUESDAY DECEMBER 12, 2017 (Councilor's Conference Room):

CAPTIONS: Monday, November 27, 2017

PACKET MATERIAL: Wednesday, November 29, 2017

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.

SUMMARY INDEX
SANTA FE WATER CONSERVATION COMMITTEE
October 17, 2017

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2. Roll Call	Quorum Present	1
3. Approval of Agenda	Approved as amended	1-2
4. Approval of Consent Agenda	Approved	2
5. Approval of Minutes September 12, 2017	Approved as presented	2

CONSENT AGENDA

- 6. Current Water Supply Status Update
- 7. Monthly Scorecard Progress
- 8. 2017 Children's Water Fiesta Summary

ACTION ITEM:

- 9. Proposed 2018 Meeting Schedule Approved as proposed 2-3

INFORMATIONAL ITEMS:

- 10. GPCD Discussion Discussion 4-6
- 11. Watersmart Conference Discussion 3-4
- 12. Working Group Reports -
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- Discussion 9-10

MATTERS FROM THE COMMITTEE

- Report from the River Commission Discussion 10

NEXT MEETING – Tuesday Nov. 14, 2017

- Accepted 10

ADJOURN

- Adjourned at 6:00 p.m. 10

**SANTA FE WATER CONSERVATION COMMITTEE
RAILYARD - ROUNDHOUSE CONFERENCE ROOM
500 MARKET STATION, SUITE 200
TUESDAY, OCTOBER 17, 2017, 4:00 PM**

1. CALL TO ORDER

The meeting of the Santa Fe Water Conservation Committee was called to order by Ms. Lisa Randall, Co-Chair, at approximately 4:00 pm, on Tuesday, October 17, 2017, at the Roundhouse Conference Room, 500 Market Station, Santa Fe, New Mexico.

2. ROLL CALL

MEMBERS PRESENT

Lisa Randall, Co-Chair
Scott Bunton
Robert D. Coombe
Aaron Kauffman
Ken Kirk
Tim Michael
Doug Pushard
Bill Roth

MEMBERS ABSENT

Councilor Peter Ives, Chair
Justin Lyon [excused]
Stephen K. Wiman [excused]

OTHERS PRESENT

Christine Chávez, City of Santa Fe, Water Conservation Manager [arriving later]
Caryn Grosse, Water Conservation Specialist, Senior
Andy Otto, Watershed Association
Carl Boaz, Stenographer for Elizabeth Martin

2. APPROVAL OF AGENDA

MOTION A motion was made by Member Roth, seconded by Member Kirk, to approve the agenda as presented.

VOTE The motion passed unanimously by voice vote.

3. APPROVAL OF CONSENT AGENDA

MOTION A motion was made by Member Roth, seconded by Member Coombe, to approve the consent agenda as presented.

VOTE The motion passed unanimously by voice vote.

5. APPROVAL OF MINUTES FROM THE SEPTEMBER 12, 2017 MEETING

MOTION A motion was made by Member Michael, seconded by Member Kauffman, to approve the minutes of September 12, 2017 as presented.

VOTE The motion passed unanimously by voice vote.

CONSENT AGENDA LISTING

6. UPDATE OF CURRENT WATER SUPPLY STATUS

7. MONTHLY OVERVIEW OF SCORECARD PROGRESS

8. 2017 CHILDREN'S WATER FIESTA SUMMARY

ACTION ITEM:

9. PROPOSED 2018 MEETING SCHEDULE (Christine Chávez)

Ms. Grosse noted a change for the regular meeting dates in June, October and November. June would be held on the first Tuesday and October and November would move to the third Tuesday. She referred to the calendar in the packet.

Member Bunton could not be present in March on the second Tuesday but could be present on the third Tuesday.

Member Roth moved to change the March meeting date from March 13 to March 20.

Ms. Grosse pointed out that there is a risk in changes of meeting dates of not having the Councilor's conference room available.

Member Bunton said if it causes difficulties, he would understand.

Ms. Grosse added that when members let her know, it is an excused absence.
Member Roth withdrew his motion.

MOTION: Member Coombe moved to approve the 2018 meeting schedule as presented. Member Roth seconded the motion.

VOTE: The motion passed by unanimous voice vote.

INFORMATIONAL ITEMS:

10. GPCD DISCUSSION

The Committee passed over this item because of projector problems.

11. WATERSMART CONFERENCE (Doug Pushard, Christine Chávez)

Member Pushard said Ms. Grosse did not go to the conference.

Ms. Grosse agreed but clarified that a staff member must be listed on every item.

Member Pushard said he brought his spouse, Gretchen, with him.

Member Pushard said he sent emails about the conference. It was the group's 10th anniversary and held in Las Vegas, the water conservation capital of the nation. There were many presentations, each about 30 minutes and 10 minutes in between. Consequently, there was not much networking during the conference. They did have cocktail times for networking. Most of the presentations and all the PDF's are online. They are very good and filled with lots of good information. He is trying to get City Staff to go to it. Every major city in the west was there and their programs are much better than most others. Santa Fe are not there yet.

This year, social media was the big topic. The other discussion was that "water conservation" is not such a great title. A lot of communities see conservation in the negative and a term that is too narrow. That is a conversation we should probably have, and our charter is broader than conservation anyway. At the conference, "Resiliency" and "Sustainability" were recommended.

Ms. Gretchen Pushard said they felt water conservation was an overused term. Some just say "Use Less Water". San Jose did a full focus group on marketing and what to call it. Your Lawn is Dysfunctional. Tucson talked about rainwater harvesting and focusing on smaller income and on high end users. One desert doesn't fit those two demographics. No rebates unless they are free was promoted. The Tucson Water Department does audit on high end users and sits with them face to face and it is working. They observed that people that have rain barrels plant more stuff and have purchased every rebate available to them. They are passionate people. In Tucson, people have to apply for rain barrel rebates and have to answer why they want them. She said she and Doug tried to split up and not go to the same workshops. She mentioned a restaurant in Atlanta that received a Rockefeller grant for their efforts in minimizing water use that their response changed staff behavior. Out of that success, the goal now is to get 100 restaurants

on board and applied for a Rockefeller grant and got it for the City. They agreed to teach youth how to do the water audit and provided Alliance Water Guides to each restaurant.

Member Pushard mentioned the summit for next year. They were successful in getting sponsors and some speakers in the water industry. He reported on a composting toilet that is revenue generating.

Ms. Grosse explained about staff not attending that the City will pay the registration but not transportation, lodging, and food so they don't attend.

Co-Chair Randall thought the Committee should figure out a way to pay their way.

Member Roth asked if Santa Fe has ever applied for that grant.

Ms. Pushard didn't know that it is an ongoing thing for Resilient Cities. It is much more than water.

Ms. Grosse said it is difficult because the process requires going through all the committees to get approval and takes about three months to do so. A resolution this year allows the City Manager to approve if there is no time for the process. That approval has a cap of \$50,000. Registration is covered out of the training budget.

Member Pushard said he is trying to find funds to do it. They accept applications in February or March and most of his presentations get accepted. It would be easy to come up with two topics and get staff there.

Co-Chair Randall said she got a scholarship this year, so she was able to attend. It reimbursed her travel costs.

Member Pushard said this event is in Las Vegas Nevada every year. The Alliance for Water Efficiency is a co-sponsor.

Ms. Pushard said the presenter assistant can also get in free but she didn't know that.

10. GPCD DISCUSSION (Tim Michael, Christine Chávez)

Member Michael spoke about the Report to the State engineer. He said he was a big player in this process. It is not new for the City to be delayed in getting the report to the State Engineer. The delay is in getting the right kind of data from the Building Department.

Ms. Grosse pointed out that it has never been this late before. Typically, they ask for 4-month extension.

Member Michael said he wasn't the right guy for this because to him, it didn't make any sense. In his opinion, the people who extract the data got it right. He had offered to do the presentation that is in the packet. The hang-up is consistency. He was unable to find out the documentation why we need to report to the State Engineer every year. It is part of our requirements related to the Buckman wells. So it is a permit

requirement. In the calculation, he was trying to identify the residential, family, and industrial groups. What is in the packet is the State Engineer required calculator. But it was so confusing that he created his own calculation spreadsheet.

First, he got the information about the city and what is needed includes housing units, household size for owners; for renters; average household size; number of available units; number of occupied units; vacancy rates, etc. What is in yellow in the spreadsheet is required for calculating the GDPC. The volume available (demand) equals the number of gallons divided by number of people and number of days. But that is not the way it is done. It came out to be \$87,000 or $2.9 \times$ number of residential meters. There is inconsistency in all of this. The use resulted in about 87 gallons per capita per day.

Member Roth asked if he would get the same number with the 2.9 without going through breaking it down by type of meter.

Member Michael agreed.

Member Roth reasoned that going through all those steps doesn't do anything

Member Michael agreed. Water Conservation had those numbers in February. That is where we are with this.

He tried to provide a way to show it, but it is confusing, and it prevented the conservation office from seeing how far off they were.

Member Roth asked if the other communities do the same thing.

Ms. Grosse said the calculator was created by the State Engineer to more closely compare apples to apples. It calculates imported water, exported water, produced water, reused water and then the different water meter types. At a summer event, one community said they only gave family numbers because they had so much industry.

Member Michael said that is why he called it "Consistency." It may not be what you want it to be but provides consistency.

Member Roth said comparing it to other southwestern cities without knowing the formula is difficult.

Member Michael said it is all available on online.

Member Coombe asked what number the State Engineer's Office is using.

Member Michael said it is 86.74.

Ms. Grosse said that uses the system data and it is 86.94.

Member Coombe thought it seems to be consistent now. Going through the exercise should offer a

baseline for it in the future.

Ms. Grosse said the clean-up is going on with the current billing system. Some schools are really listed as residences. They are trying to put everything into the right categories and that will improve it even more.

Member Coombe asked if it is necessary to use this method to go back and correct the errors.

Ms. Grosse said there has consistently been a downward trend and they can go back and redo the data, but the trend will remain the same.

Member Michael said he would be very surprised if there was much change in the numbers. Last year, it was 8,000 ac/ft. and this year it is 8.500 ac/ft.

12. GROUP REPORTS FROM THE WATER CONSERVATION COMMITTEE WORKING GROUPS

A. GROUP 1 - Irrigation Subcommittee (No Update)

Member Pushard said the Subcommittee will meet on Friday at 9:00 at the office. They are going through the Great Water training using training materials from California to New Mexico.

B. GROUP 2 - General Education Program (Aaron Kauffman, Christine Chávez)

Member Kauffman and Ms. Chávez had provided education at the Youth Fiesta on October 2 and talked about pre and post tests for various utilities in the city to assess their understanding. We can determine what they learned. They had some success with buy-in on the tours. The infrastructure is set up with UNM to provide a graduate student at some time in the future. The purpose is to determine when they move beyond 4th grade how the students understand and retain the knowledge in subsequent years.

C. GROUP 3 - Marketing Outreach (Doug Pushard, Christine Chávez)

Member Pushard said he was not on the Marketing Outreach Committee.

Ms. Grosse said the report is Strategic Marketing.

Member Roth said that would be him. They are reviewing the plan together. They reviewed Lynn's marketing outreach plan and Ms. Chávez was also there. The report was based on the Committee's input and will be reviewed at the next meeting. The third topic was the historical document of water conservation in Santa Fe and went out to all members with the resolutions done through the years. The intent was to broaden and update it. The other idea was to expand it to include land use policies as a water conservation tool. That is important because then we could hand it to candidates for office to have accurate knowledge. The mayor said the water rates were the reason we are #1 in water conservation in the nation.

Member Pushard asked Ms. Grosse to add the time line to see what we did at what time and the impact of actions taken. High water rates were not the reason but just one of several.

Ms. Grosse asked what changes were made and the water savings from the rebate program to the water budget for offsets.

Member Pushard said it should be what we hand people when they join the committee. It is important to put it in hands of the candidates because they will be asked about water. He asked Katherine Mortimer to add something for Land Use and also for Stormwater.

D. GROUP 4 - Water Conservation Codes/ Ordinances/Regulations. (Scott Bunton, Christine Chávez)

Member Bunton said he had not seen the minutes.

Ms. Grosse didn't know if Ms. Chávez printed anything out yet. The meeting on September 29 was well attended. It was primarily to look at the restaurant draft water program at participating restaurants and in some cases, was done line by line. Then it would be polished and circulated. Conversation on the value proposition with restaurants. And still open when the meeting adjourned. A questionnaire for each participating restaurant and the # of water using instruments - dishwashers, sinks, urinals, toilets, and tweaks to that list.

Member Roth said the rewrite of the resolution was sent to the City Attorney's office.

Ms. Chávez arrived at 5:30 and Member Bunton told her they were discussing the draft restaurant resolution.

Ms. Chávez mentioned a meeting next Wednesday for getting to the final draft and then through Mr. Guillen and to be voted on at the next regular meeting.

Member Bunton said the other resolution was on grey water and they didn't have time to consider it. That will be looked at also at the meeting which is scheduled next week on October 25th at 11 a.m.

Member Pushard told Member Bunton that he had submitted comments and Ms. Chávez was not sure if he had incorporated them.

Member Bunton said he did in the restaurant resolution but not the grey water resolution.

Member Pushard agreed to send it to him with a bullet on percentage of grey water users.

E. GROUP 5 - Grants (Bob Coombe, Christine Chávez)

Member Coombe said Grants had a meeting that Ms. Chávez already alluded to. He thanks those

who submitted ideas on projects. It is evident that the water conservation office is so busy and even if there were proposals forthcoming, there is no one to perform it. So we might look for grants for more personnel. The Integrated Education project could evolve with a school for education in K-12 systems. We talked about UNM and possible grant money for that. It might be a real possibility.

The other is a commercial conservation project and they talked about restaurants and a business model about it to make up in a school and impact on business models. The hotel/restaurant school in Minnesota and one in Las Cruces are looking for money for this kind of project.

Member Pushard said there is money and we just need to be in the right place at right time. If we think about a pilot now, there are entities that could fund it for 30 restaurants and tie it to the school. The State of New Mexico is also a source of funds. Job training is one area. Now we are expanding out of restaurants into other areas. He asked if there would be any to look at EPA projects. EPA is very interested in going to public schools and the Trust Fund would pay for the program - a partnering program to set it up and pitch it to the Water Research Fund. If EPA goes in with us, it would help.

Co-Chair Randall asked to sign her up.

Ms. Chávez asked if that could be prioritized and we can look at it.

Member Bunton pointed out that academic institutions tend to have at least one person paid to watch what is happening in world of grant making and maybe the Committee could come up with a person willing to cooperate with us.

Member Roth suggested Amanda Hatherly, who is well versed in writing grants.

Member Pushard agreed. She would be the one to ask for that person.

F. GROUP 6 - Commercial Conservation (Doug Pushard, Christine Chávez)

Member Pushard said they already talked about it so he didn't have to give an update. We are a month behind because of the resolution and were supposed to knock on doors this month.

Ms. Chávez said the resolutions are following the store. The contract is taking a long time. It involves jumping into the work forms, getting things finalized on financing, etc. and it must be signed by the City Manager. It will probably take two more weeks to get it done but we will start meeting with restaurants next week and forge ahead.

Member Pushard asked if the City is a member of the Alliance for Water Efficiency.

Ms. Chávez said yes.

Ms. Grosse said we have the Canadian paper and are waiting for the American paper.

MATTERS FROM THE PUBLIC

Ms. Pushard asked if she had a printed copy. People in Atlanta raved about it.

Ms. Chávez thought she did, but it is the Canadian version.

MATTERS FROM STAFF

Ms. Chávez reported they had the passport group show up and it was exciting. They are staying busy with a ton of watershed events. There were four in the last two weeks. It is working out well and they have a new employee starting on Monday and she will bring him to the next meeting.

She thanked the Committee for all their work.

MATTERS FROM THE COMMITTEE

Co-Chair Randall said she would be listening at the meeting tomorrow and bring a report back to the Committee.

Ms. Chávez said the idea was to find out what is happening with those groups.

Member Roth asked if she could send that list back out again, so he would know what he signed up for.

Ms. Chávez agreed to send it out.

Co-Chair Randall said she is going to attend the Sustainable Santa Fe Commission meeting.

Ms. Chávez said they just had a couple of days to review the draft. She had asked for it to come here but it is going to bypass Water Conservation and push out the report because the Mayor's term is going to end, and the Commission's term ends also. So they are rushing on it. She had hoped it would make the rounds of the Committee. Sustainable is working with their Brendle Group consultants.

Co-Chair Randall noted that they included many educational components without any consultation with Santa Fe Public School and had no authority to do it.

- **Committee Report from the River Commission (Aaron Kauffman, Christine Chávez)**

Member Kauffman said he attended the River Commission meeting last week with Melissa McDonald. Two things came out of it. They started to discuss the "sweep the poop" campaign. E. Coli is found in the river and they are trying to find where it comes from and will provide results soon. Ms. McDonald is

interested to get the word out to the public. Newspapers, pet stores, etc to create awareness. It is assumed most of it comes from dogs.

The other thing was river management along the West River Corridor. There was not as much discussion of plans after taking out the species - vegetation along the corridor.

Member Michael asked if what is in the packet has been sent to the AG.

Ms. Chávez said no but will be in the Public Utilities packet for Thursday.

Member Michael asked if, when it is finalized, she could also send the spreadsheet.

Ms. Chávez agreed. It will come here and to all the different committees. We talked about the issues.

Ms. Chávez asked how the members like this room for the meeting. We could move the tables closer. She thought it was kind of nice moving around and getting presentations from them.

Ms. Grosse said the Committee may be back here at the Railyard next month.

NEXT MEETING – Tuesday November 14, 2017 Location TBD

ADJOURN

MOTION: Member Coombe moved to adjourn the meeting. Member Roth seconded the motion and it passed by unanimous voice vote. The meeting was adjourned at 6:00 p.m.

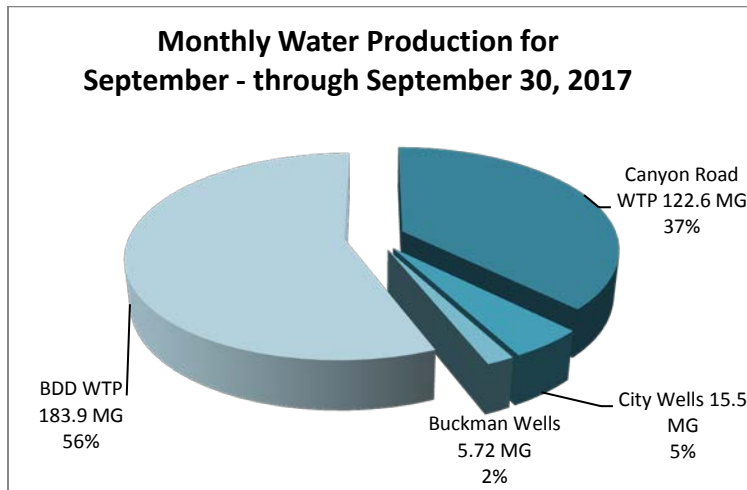
Councilor Peter N. Ives, Chair



Carl Boaz for Elizabeth Martin, Stenographer

**City of Santa Fe, Source of Supply Section
Water Production Update - through September 30, 2017
Public Utilities Committee Meeting
November 1, 2017**

Water Production Update for September (09/01/2017 through 09/30/2017)



Total Production of System

Sum: 327.7 million gallons (MG) for 30 days

Daily Average Consumption: 10.23 million gallons per day (MGD)

Reservoir Storage Levels:

McClure: 45.4% or 495.14 MG

Nichols: 68.5% or 147.6 MG

Combined: 49.2% or 642.7 MG

Santa Fe River Flow:

Below Nichols (Living River Flows): 0.30 cubic feet per second (cfs) or 0.194 MGD

Streamflow at Gage below Nichols: 0.30 cfs (Living River Flow Only)

Above McClure (Reservoir Inflow): 6.82 cfs or 4.41 MGD

Baca Street Well

A draft amended work plan for the Baca Street Site has been submitted to the NMED Petroleum Storage Tank Bureau (PSTB) for review and approval. That draft was also provided to the Public Utilities Division by NMED-PSTB for comment.

Former Ortiz Landfill

A draft report of the investigation outcomes and proposed future action was delivered to the City by INTERA Corporation on September 15th for review and comment. It has been reviewed by the Public Utilities Department including the Environmental Services Division and Environment Office. INTERA and the City will submit a revised Stage 1 Abatement Plan to the New Mexico Environment Department based on the findings of the study.

Old Filter Plant

Trail construction (Dale Ball Trail Connector) at the Old Filter Plant Site has been partially cleared for planting of trees and grasses at the site. Trail construction may also resume up to the stream crossing at the site. The route of the trail from that point to the Dale Ball Trail parking lot must be re-evaluated to assess avoidance and mitigation measures that can be employed with regards to the protection of historic sites. PUD has proposed a meeting at the site with the Parks and Recreation Division with regards to this re-evaluation.

Los Alamos National Laboratory Sitewide Monitoring Program

A new plan for the continuance of the Los Alamos "Sitewide Monitoring Program" Sampling of Buckman Wells was approved in June of this year for 2017/2018 sampling. The first samples under the continued plan were taken at the end of June. A date for a second sampling event is being negotiated with Los Alamos during the period of October 1, 2017 through-December 31, 2017. Samples will be taken for High Explosives, Volatile Organic Compounds, Sem-Volatile Organic Compounds, PCBs, Radionuclides, Tritium, Percchlorate, Hexavalent Chromium, Metals, and general inorganic chemicals.

Drought/Monsoon, Storage, and ESA Update

NOAA has recently (10/12/17) updated ENSO (El Nino/La Niña) status to: **"There is an increasing chance (~55-60%) of La Niña during the Northern Hemisphere fall and winter 2017-18."** Heron, Abiquiu, and El Vado reservoir levels on the Chama River are no longer rising. Local Upper Santa Fe River reservoir storage is slowly increasing due to recent rains (about 70% full). The City has received 100% delivery from BoR of full firm-yield of San Juan-Chama Project (SJCP) water. There are no water-related Endangered Species Act (ESA) updates. Updates on ESA issues will be made as needed. Rio Grande Compact Article VII storage restrictions are in effect, which means the City will not be allowed to impound "native" runoff into Nichols and McClure Reservoirs above the pre-Compact pool of 1,061 acre-feet (AF) (unless ISC relinquishment credits are exchanged). Rio Grande Compact status regarding Article VII is not expected to change any time soon. Updates to this condition will be made as needed.

Most current City of Santa Fe SJCP Reservoir Storage:

Heron:

5,230 AF. 2017 deliveries were 100% of annual total.

El Vado:

0 AF.

Abiquiu:

11,417 AF. SJCP carry-over from previous years plus 2017 deliveries. No time limit to vacate due to storage agreement with ABCWUA

TOTAL:

16,647 AF



Water Conservation Office

Monthly Overview of Scorecard Progress – October 2017



Education Outreach:

Education Initiative:

- Watershed Tours on 10/3, 10/4, 10/5, 10/11 – Caryn
- Watershed Tour on 10/17 – Lisa
- Watershed Tour on 10/18 – Lisa/ Patricio
- Watershed Tour on 10/19 – Patricio
- BDD Field trip for Passport – Kearny and Gonzales on 10/17
- BDD Field trip for Passport – Amy Biehl on 10/19
- Presented at the Rio Rancho Water Festival on 10/23-24
- BDD field trip for Passport – Kearny on 10/24
- BDD Field trip for Passport – Salazar on 10/26
- BDD field trip for Passport – Amy Biehl on 10/30
- BDD field trip for Passport – Gonzales on 10/31
- Sustainable Santa Fe presentations for Kearny on 10/31

General Outreach:

- Met with Native Plants Group on 10/13 to discuss planting of demo garden
- Imagine a day without water Campaigns on social media/ website – 2 videos recorded with 2nd Street Brewery



Communication and Customer Service:

Eye On Water Rollout:

- Patricio working with Customer Service to address continuous leak accounts in Eye On Water
- 2,686 eye on water sign ups

Indoor Water Audits:

- none

Enforcement Activity:

- 10/3/17 Mesa Verde/Alameda Warning: water waste due to leak in irrigation system
- 10/9/17 S. St Francis Road Warning: fugitive water/water released by pipe
- 10/12/17 W Alameda Street Warning: time of day/fugitive water

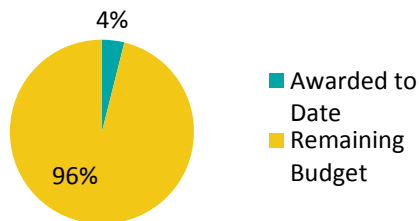
Strategic Marketing Plan:

- Radio show guests (Melissa McDonald, Quita Ortiz, Doug Pushard, Erin Wade)
- FY18 Strategic Plan: Drafted and reviewed with edits. Implementation to begin October 13, 2017
- Updated community presentation
- Developed FY18 radio show calendar aligned with water programs, events and monthly thematic topics
- Developed FY 18 social media content library, including WaterSense monthly themes
- Developed scripting, creative concept, production oversight of two "Day without Water" videos highlighting restaurant, include two videos for FY18 continued use and two interviews.
- News media outreach to secure photo of Children's Water Fiesta in SFNM

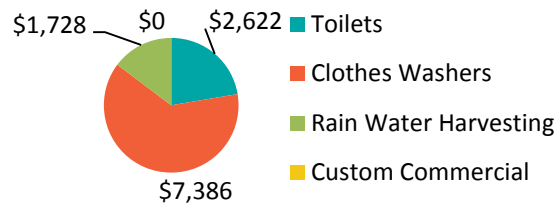
Residential and Commercial Rebates:

Remaining fund balance as of October 18, 2017: \$288,264.00

Rebate Fund



Rebate Amounts per Device Type



Rebates awarded FY-to-date:

- HET (all types) 46
- Clothes Washers (all types) 25
- Rain Water Harvesting (including rain barrels) 16
- Custom Commercial 0



Effective Program Management

Organizational Development:

- Mario Torres starts on 10/23
- All employees attended employee compensation study meetings on 10/17 and 10/19

Water Conservation Committee:

- Aaron Kauffman attended River Commission meeting on 10/12
- Lisa Randall attended Sustainable Santa Fe Commission meeting on 10/18

Integration with Water Resources:

- GPCD work completed and submitted to NMOSE
- AWWA audit is in progress (pending GPCD calculations)
- Annual Water Report information is being gathered (pending GPCD calculations)
- Caryn Grosse assisting with the Long Range Water Supply Plan



Stewardship and Conservation:

Regional Collaborations:

- Staff review of the Sustainability Plan
- Lisa attended the Watersmart Innovations Conference on October 4-6th



City Of Santa Fe Water Conservation Enforcement

By: Patricio M. Pacheco

City of Santa Fe Water Conservation Education &
Compliance specialist

Water Conservation Enforcement

Water Waste Hotline Calls

- When call is received the following information is obtained
 - Name of violator
 - Address of violation
 - Nature of the violation
 - Time/date of violation
 - Frequency of violation
 - Name and phone number of caller for follow up

Enforcement Patrol

- When going out on patrol, we attempt to find, inspect & get info on water violations that may be taking place;
 - Name/ Address of violator
 - Nature of violation
 - Time/Date of violation
 - Frequency of violation

Water conservation Enforcement

- Look at violations database and billing database for history of previous violations
- Items to take on visit:
 - Warning and Citation books
 - Eye on Water Cards
 - Signage
 - Camera
 - Door hanger
 - Literature (City of Santa Fe Comprehensive Water Conservation Requirements)
 - City of Santa Fe I.D./Conservation Badge

Water Conservation Enforcement

- If there is evidence of the violation, take photos with time/date stamp setting on. Make notes for use in writing the violation letter. Attempt to find the resident, owner or manager of the property. **If No One is Present**– Leave a door hanger marked with the violations observed. Follow up as indicated.
- First Time Offenders - First time offenders may not be aware of the requirements of the City of Santa Fe water conservation ordinance. Provide the *City of Santa Fe Comprehensive Water Conservation Requirements* brochure, explain that this visit is a warning and subsequent violations may result in fines being assessed to their water bill, up to \$200 per violation. Indicate that the visit will be followed up with a letter containing details of the violation(s) and the photos of the evidence.
- Repeat Offenders - Repeat offenders have already been warned, and are familiar with the City of Santa Fe water conservation requirements. Explain the violation(s) which were observed, write out a citation and indicate that the visit will be followed up with a letter containing details of the violation(s) and photos of the evidence, and that the fine will be assessed to their water bill.

Water Conservation Enforcement

- Water Use Violation Fees

- 1st violation: \$20
- 2nd violation: \$50
- 3rd violation: \$100
- 4th and additional violations: \$200

- Write the follow up letter with pictures and save the letter with the customer name or street address and date.
- Mail the original letter to customer, put a copy in the file, along with any field notes. If a citation was issued, include it in the file, and submit copies of the letter and citation to Billing along with the appropriate billing cycle summary so that the citation fee can be added to the customer's water bill.

Water Conservation Violations

Fugitive Water
> 10 sq ft.

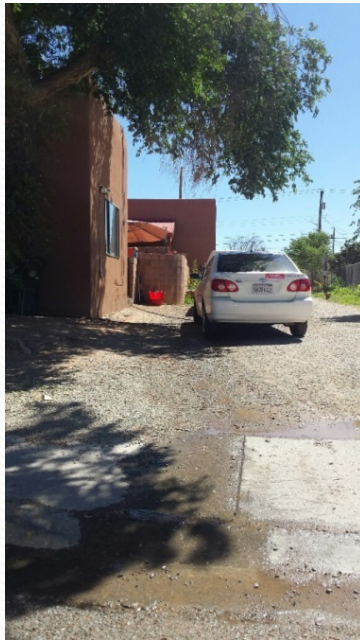


Time Of Day
Watering between 10am & 6pm



Water Conservation Violations

Vehicle Washing Without
Nozzle



Water Waste
Leaks >0.25 gpm



Water Conservation Violations

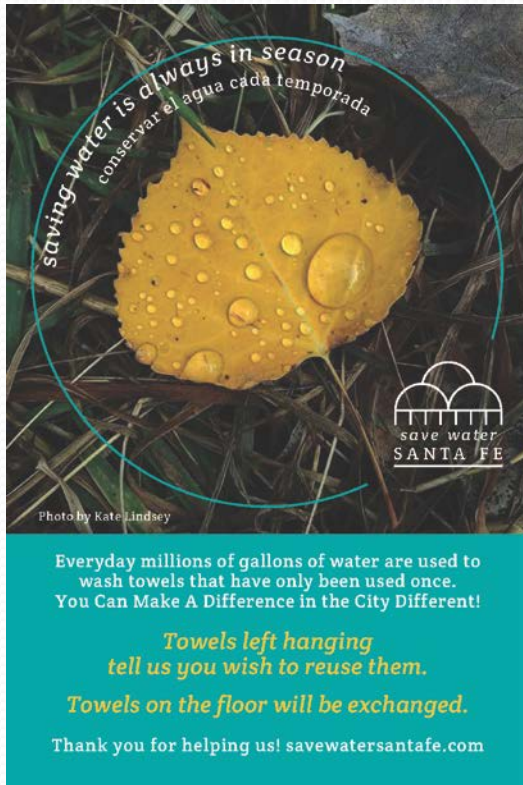
Using water to clean hard surfaces



Serving water without request



Water Conservation signage options



Water Conservation Questions






City of Santa Fe, New Mexico

memo

Date: October 18, 2017

To: Public Utilities Committee

From: Christine Y. Chavez, Water Conservation Manager 

Via: Rick Carpenter, Water Division Director and Water Resources & Conservation Manager 
Shannon Jones, Public Utilities Department and Water Division Director 

RE: 2016 GPCD (gallons per capita per day) Analysis utilizing NM Office of the State Engineer Methodology

Introduction:

A measurement of water conservation success for the City of Santa Fe is the use of the gallons per capita per day (GPCD) calculation. Staff has completed the annual GPCD report for 2016 using the New Mexico Office of the State Engineer (NMOSE) methodology referenced below. As part of the conditions applied to the City's water right permits, the City must annual submit an annual GPCD calculation to the NMOSE. Though this region of New Mexico has experienced climatic and seasonal challenges, the calculated GPCD of 87 for 2016 is a result of progressive on-going water conservation efforts by the City's water customers.

NMOSE GPCD Calculator Methodology:

To better regulate municipal water use, the NMOSE began to condition municipal water-rights permits with the GPCD measurement and began a program to standardize the GPCD methodology (Vogel, et al. 2009, Southwest Hydrology, see attachment 1). On March 16, 2009, the NMOSE released the standardized GPCD methodology using the GPCD calculator, 2.04 Beta Version. The City was required to use the tool for the first time in 2010.

Results of the 2016 GPCD Calculator:

The GPCD for 2016 was 87 gallons per capita per day for the City of Santa Fe. The GPCD for 2015 was calculated as 92. In comparison to other cities in the southwest, the City's GPCD is one of the lowest.

Methodology:

The NMOSE GPCD methodology compiles customer billing information, US Census Data for population counts, treated effluent totals and potable water produced, less the amount of potable water that was sold to Santa Fe County. The calculator looks at each customer sector such as single family residential, multi-family and commercial and calculates a GPCD for each sector along with a total GPCD number that is representative of the entire system. The individual GPCD calculations allow the Water Conservation Office to look within each sector for appropriate conservation programming.

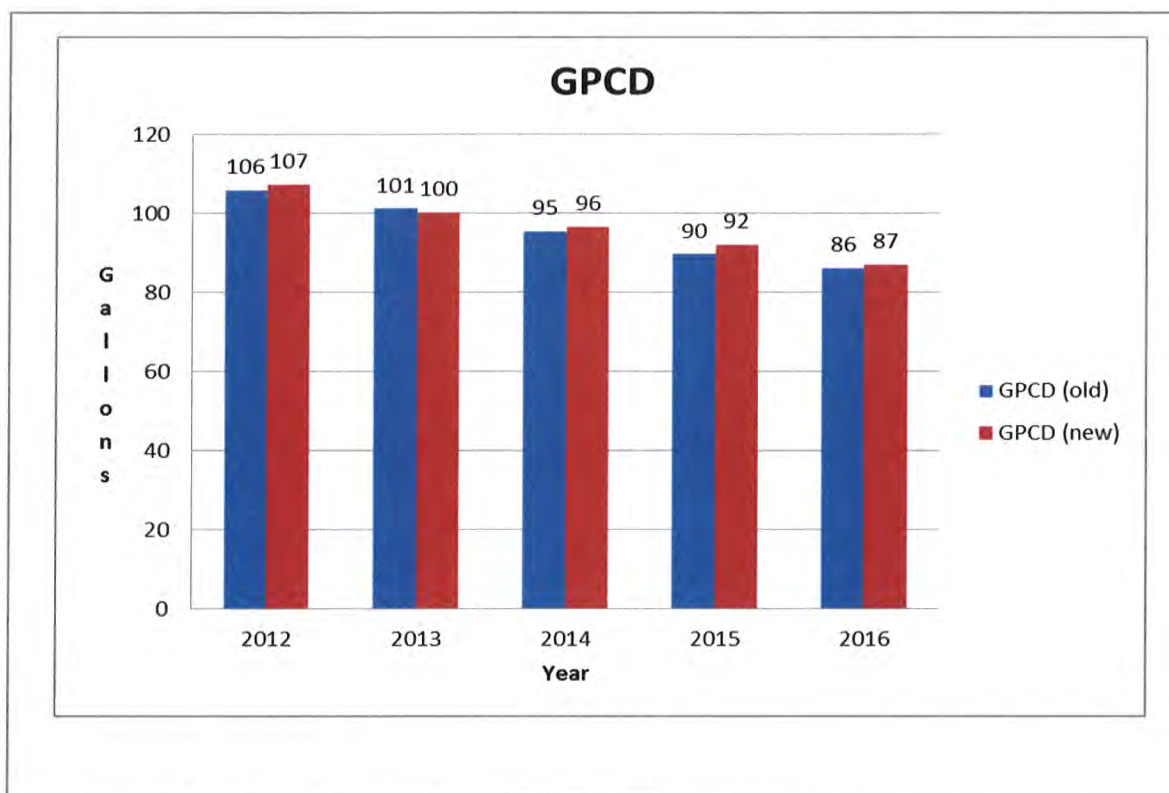


Figure 1: GPCD for the City of Santa Fe from 2012-2016

The population for the GPCD is calculated using several different factors including the American Community Survey 5 year average which is higher than what we know to be true. Several discussions were held about whether or not changes should be made to the methodology to better represent population. It was determined that the best approach would be to maintain consistency with how that was calculated in the past. Discussions with the NMOSE also revealed that several other utilities had the same issue but the idea was to have everyone calculate it the same using the census data outlined within the calculator itself.

Past GPCD calculations revealed a higher than expected single family GPCD. It was determined that several accounts being pulled as part of the query didn't belong in the single family residential category but rather the commercial category. As a result the query was adjusted to use specific billing tables instead of address or meter location. This change made a significant difference in the way the different customer classes were represented in the overall GPCD. This new approach changed the GPCD numbers slightly from the past but it more accurately represents each individual sector.

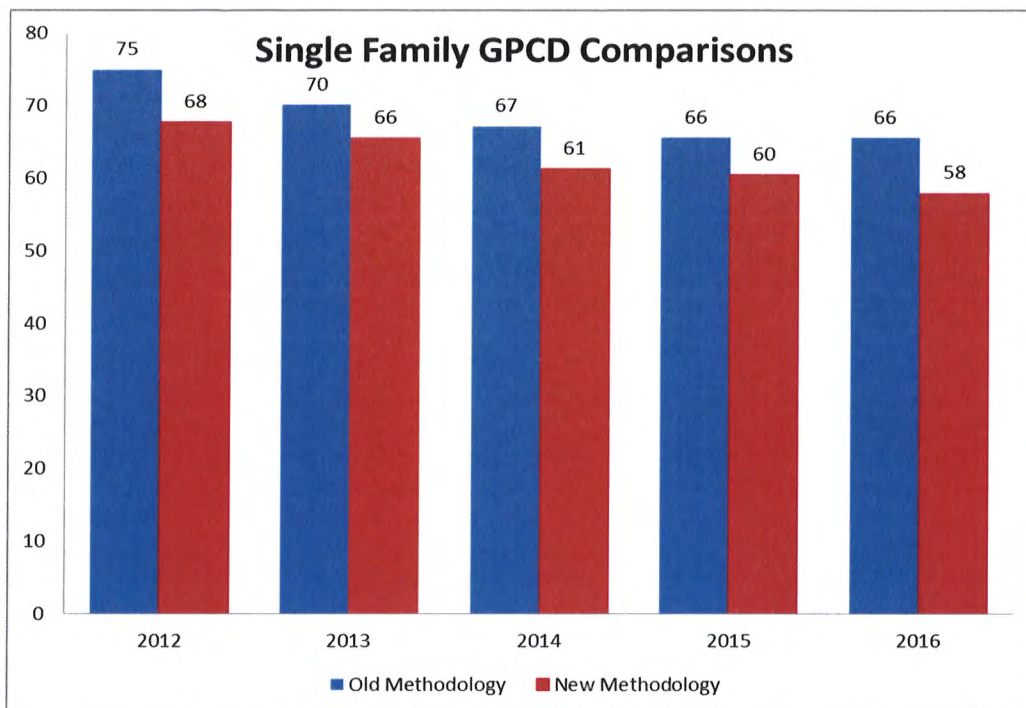


Figure 2: Single Family GPCD Comparisons for the City of Santa Fe from 2012-2015

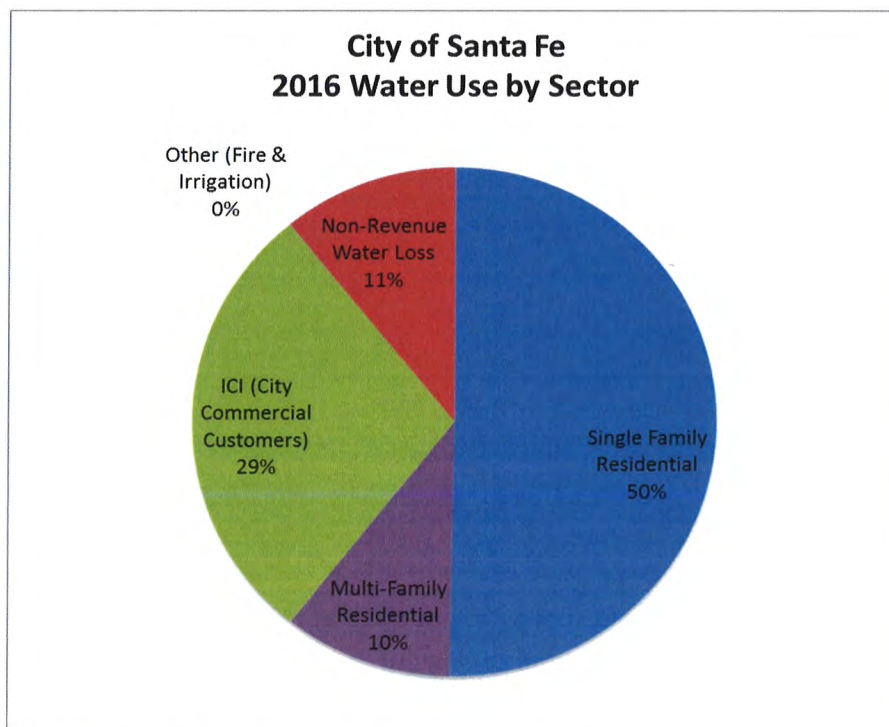


Figure 3: 2016 Water Use by Sector

Conclusion:

The City has achieved lower water consumption through public outreach, ordinances requiring customers to comply with water conservation requirements, tiered water rates and the utilization of incentives. The City's average single-family residential customer uses approximately 58 gallons per day or 1,740 gallons per month.

2018 Meeting Schedule

Santa Fe Water Conservation Committee

Location: City Councilors' Conference Room, 200 Lincoln Avenue

Time: 4-6 PM

Day: Second Tuesday of the month (except as noted)

Meeting Date	Caption Deadline, 3 PM	Packet Material Deadline, 3 PM
Tuesday, January 9, 2018	Tuesday, December 26, 2017*	Wednesday, December 27, 2017
Tuesday, February 13, 2018	Monday, January 29, 2018	Wednesday, January 31, 2018
Tuesday, March 13, 2018	Monday, February 26, 2018	Wednesday, February 28, 2018
Tuesday, April 10, 2018	Monday, March 26, 2018	Wednesday, March 28, 2018
Tuesday, May 8, 2018	Monday, April 23, 2018	Wednesday, April 25, 2018
Tuesday, June 5, 2018*	Monday, May 21, 2018	Wednesday, May 23, 2018
Tuesday, July 10, 2018	Monday, June 25, 2018	Wednesday, June 27, 2018
Tuesday, August 14, 2018	Monday, July 30, 2018	Wednesday, August 1, 2018
Tuesday, September 11, 2018	Monday, August 27, 2018	Wednesday, August 29, 2018
Tuesday, October 16, 2018*	Monday, October 1, 2018	Wednesday, October 3, 2018
Tuesday, November 20, 2018*	Monday, October 29, 2018	Wednesday, October 31, 2018
Tuesday, December 11, 2018	Monday, November 26, 2018	Wednesday, November 28, 2018

*Date changed due to holiday or other event