



Agenda

CITY CLERK'S OFFICE

DATE 8/1/16 TIME 3:43pm

SERVED BY Christine Chavez

RECEIVED BY [Signature]

**SANTA FE WATER CONSERVATION COMMITTEE MEETING
CITY HALL - 200 LINCOLN AVE.
CITY COUNCILORS' CONFERENCE ROOM**

August 9, 2016
4:00 PM TO 6:00 PM

1. CALL TO ORDER
2. ROLL CALL
3. APPROVAL OF AGENDA
4. APPROVAL OF MINUTES TUESDAY JULY 12, 2016 WATER CONSERVATION COMMITTEE MEETING

DISCUSSION ITEMS:

5. Update on new billing system and badger meters (Nick Schiavo, 15 minutes)
6. Strategic Implementation Plan Presentation (Lynn Komer, 30 minutes)
7. Updates on Water Conservation Program (Christine Chavez, 15 minutes)

ACTION ITEMS:

8. A RESOLUTION CALLING ON THE NEW MEXICO OFFICE OF THE STATE ENGINEER TO ORDER MEASURING AND METERING OF ALL GROUNDWATER WELLS WITHIN THE CITY OF SANTA FE AND REQUESTING AN APPROPRIATION OF FUNDS FROM THE LEGISLATURE. (Councilor Ives) (Andrew Erdmann, 15 minutes))

INFORMATIONAL ITEMS:

9. Group Reports from Water Conservation Committee Working Groups (no updates)
 - A. GROUP A - Irrigation Rebate and QWEL (Tim Michael - 10 minutes)
 - B. GROUP B - Expansion of the K-12 Education Program
 - C. GROUP C - Grant Exploration and Ideas
 - D. GROUP D - Water Conservation Codes, Ordinances and Regulations
 - E. GROUP E - Water Conservation Scorecard (Robert Coombe, 10 minutes)
10. SOURCE OF SUPPLY - Drought Update

MATTERS FROM PUBLIC:

MATTERS FROM COMMITTEE:

NEXT MEETING - TUESDAY SEPTEMBER 13, 2016:

CAPTIONS: AUGUST 29, 2016 @ 3 PM.

PACKET MATERIAL: AUGUST 31, 2016 @ 3 PM.

ITEMS FOR NEXT AGENDA:

Green Building Code updates (Katherine Mortimer)

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
INDEX
July 12, 2016

Cover Page		Page 0
Roll Call/Call to Order	The Water Conservation Committee Meeting was called to order by Councilor Peter Ives, Chair, at 4:00 pm in the City Councilor's Conference Room. A quorum is reflected in roll call.	Page 1
Approval of Agenda	<i>Mr. Pushard moved to approve the Agenda as presented, second by Mr. Coombe, motion carried by unanimous voice vote.</i>	Page 2
Approval of Minutes, May 10, 2016 June 21, 2016	<i>Mr. Wiman moved to approve the minutes of May 10, 2016 as presented, second by Mr. Coombe, motion carried by unanimous voice vote.</i> Correct spelling from Coom to Coombe in attendance list. <i>Mr. Coombe moved to approve the minutes of June 21, 2016 as amended, second by Mr. Wiman, motion carried by unanimous voice vote.</i>	Page 2
Discussion Items <ul style="list-style-type: none"> • Update on Green Building Code • Update on Jemez y Sangre Regional Water Plan 	Informational, no formal action.	Page 2 - 4
Action Items <ul style="list-style-type: none"> • Resolution No. 2016-25. Preliminary Report and Recommendation for Storm Water Policy • Approval of Revision to Chapter 25 • Assignment of Committee Members to new Working Groups • Recommendation on Implementation of the Strategic Marketing Plan 	Mr. Pushard moved to support Resolution No: 2016-25: Preliminary Report and Recommendation for Storm Water Policy Update, second by Mr. Roth, motion carried by unanimous voice vote. Mr. Michael moved to support and approve the revisions to Chapter 25 – Water Conservation Section, second by Mr. Wiman, motion carried by unanimous voice vote. Mr. Pushard moved to approve the committee assignments as reflected above, second by Mr. Michael, motion carried by unanimous voice vote. Mr. Pushard moved to approve the recommendation on implementation of the Strategic Marketing Plan, second by Mr. Michael, motion carried by unanimous voice vote.	Page 4 - 5
Informational Items <ul style="list-style-type: none"> • Group Reports • Source of Supply Report • Committee Appointments 	Group Reports, No Updates Source of Supply report included in packet. Committee appointments reflected in roll call and under introductions.	Page 5
Matters from Committee	None	Page 5
Matters from the Public	None	Page 5

Next Meeting	Tuesday, August 9, 2016	Page 5
Adjournment and signature	Meeting was adjourned at 6:00 pm	Page 5 - 6

**SANTA FE WATER CONSERVATION COMMITTEE MEETING
CITY HALL - 200 LINCOLN AVE.
CITY COUNCILORS' CONFERENCE ROOM**

JULY 12, 2016
4:00 PM TO 6:00 PM

MINUTES

1. CALL TO ORDER

Councilor Peter Ives, Chair for the Water Conservation Committee called the meeting to order at 4:05 pm in the City Councilors' Conference Room. A quorum is reflected in roll call. (Presently there are 2-vacant positions)

2. ROLL CALL

Present:

Councilor Peter Ives, Chair
Doug Pushard
Tim Michael
Stephen K. Wiman
Bill Roth
Robert D. Coombe
Aaron T. Kauffman
Justin Lyon

Not Present:

Lisa Randall, Excused

Others Present:

Christine Y. Chavez, Water Conservation Manager
Caryn Grosse, Water Conservation Specialist
Patricio Pacheco, Water Conservation Enforcement Officer
Katherine Mortimer, Programs Manager, Public Utilities
Andrew Erdman, Water Resources Coordinator
Marcos Martinez, City Attorney
Melissa McDonald, RLA River & Watershed Coordinator
Kim Shanahan, Santa Fe Area Homebuilders Association
Andy Otto, Santa Fe Watershed Association

Fran Lucero, Stenographer

3. APPROVAL OF AGENDA
No Changes.

Mr. Pushard moved to approve the Agenda as presented, second by Mr. Coombe, motion carried by unanimous voice vote.

4. APPROVAL OF MINUTES TUESDAY MAY 10, 2016 WATER CONSERVATION COMMITTEE MEETING
No Changes.

Mr. Wiman moved to approve the minutes of May 10, 2016 as presented, second by Mr. Coombe, motion carried by unanimous voice vote.

5. APPROVAL OF MINUTES TUESDAY JUNE 21, 2016 WATER CONSERVATION COMMITTEE MEETING

Correct spelling from Coom to Coombe in attendance list.

Mr. Coombe moved to approve the minutes of June 21, 2016 as amended, second by Mr. Wiman, motion carried by unanimous voice vote.

DISCUSSION ITEMS:

6. Update on Green Building Code (Katherine Mortimer)

We have been working on the Green Building Code for about a year now and will include the incorporation of the WERS tool into the Code which is a substitution for what is now a checklist of items that people can choose from to get enough points under our current system. Chair Ives provided information on the WERS tool which is similar to the HERS rating system which is the energy rating system for construction. WERS does for water what HERS does for energy effectively. It provides an opportunity for builders working with clients to determine what types of attributes they would like in the home to presumably acquire a WERS rating of a beneficial type – the lower the score the better the more water efficient a home would be. This incorporation to code would help promote water conservation across the city in construction but in part also because it was created here. It is a program that potentially has national implications as our country looks for greater ways to conserve water in intelligent ways and it has the benefit of being incentivizing as opposed to prescriptive.

Ms. Mortimer noted that the bill would update the existing residential green building code for those that are not aware of it going in to effect in 2009. It is a checklist of items in six different categories including water as one of them. You have a menu of items and you have to get a certain number of points, there are some required things. This update will remove that checklist for all six categories; it will move the focus of the code to be more focused on energy and water relative to the other topics. The updated code will increase the requirements for energy and water so the energy score will need to get better (point system discussed). The WERS score that is being proposed is 70 points which is approximately 30% better than the minimum code standards. It does include key mandates from other sections of the code and practicality but it also includes the predictability of water. Once the program is set up where it is just two scores you are getting for the requirement it is easier to drive that efficiency. Initially it will apply to new residential single family buildings, which is what we did with the Green Code in general. Some of the additional things that are required are a minimum number of air exchanges in order to help the air, insuring that all cooling systems are designed for the ACCA Manual which is the Air Conditioning Contractors of America. This is the manual that they put out is to assure that the things are sized accurately and to insure that the homeowners manual includes all relevant information and is bi-lingual. Staff is preparing the majority of the content so they can assure it is updated and current. Ms. Mortimer noted that staff will be trained in all areas.

In addition to the code we are proposing a Resolution that would establish target goals for energy efficiency, water efficiency and gas reductions over time and improving the code to achieve those goals. Staff will be collecting data on how they will reach those goals and adjusting programs. The interrelationship between water

and energy is well established. One of the benefit of WERS is it is a lot easier to adapt the WERS score of an existing house to the HERS score. Presently it has been reviewed by our City Attorney; there are additional administrative hurdles that need to be completed before it goes to the Mayor and City Council. Currently we are about 40% better than code and we are not going to get more lenient. The scores are based on the amount of water used based on the standards, what we are saying right now is that we will require a score of 70 which is about 30% less and better. The actual average score for HERS is coming in at about 62, there are still people coming in at 70 so pushing it to 65 is still good. This will apply initially to new construction, HERS rating applies only to new so what we do with additions and remodels is working through best practices, we say if you are opening up a wall put the insulation up to code.

Chair Ives noted that he would like to set a target date for publishing the notice of the ordinance at Council. Ms. Mortimer noted that until Finance signs off a date cannot be set. Chair Ives noted an additional concern which is the inspection for the certification process, who is handling this? The Chair has spoken to the Land Use Director and would like an update. New members of the WCC would like a copy of the draft for review; Ms. Mortimer will follow up on this request.

7. Update on Jemez y Sangre Regional Water Plan (Andrew Erdmann)
The Chair noted that he has been working with Andrew on this process and we are close to meeting the goals of the ISC. Mr. Erdman noted that the planning with the ISC is moving quickly. The first plan review was in 2007 which brought forth a lot of incompatibility discussion between cities. You can't completely reconcile when they are pulling in opposite directions. Most recently, starting last year the goal was to do a common technical platform, which the ISC is calling it and they basically wrote the entire plan for everybody. There are 16 regions around the state and for the majority of these regions it is my understanding that they are raising the bar. We are one of the regions for which they are lowering the bar and so our plan is getting worse in order to make it more consistent with other plans around the state. Jemez y Sangre plan was originally written in 2003 and was revised by a very active steering committee; Amy Lewis was one of the members of that group and she is also the Consultant that has been hired by the ISC to pull together the technical surge. Several meetings have been scheduled, the next meeting on Section 2 and 8 – and the 148 page document included in the packet does not have Section 2 and 8. Section 2 has to do with the public involvement in the planning process and Section 8 has to do with the implementation of strategies for future water management. The public involvement process is yet to be finalized; there is a description on the planning region which is essentially Santa Fe County (Mr. Erdman defined the areas). The Chair noted that there are parts of Rio Arriba and Sandoval County and Los Alamos included. Basically ISC is writing the report for us and contractors are facilitating the meetings; however there is a steering committee representing the Stake holders and city of Santa Fe does have representation on it. The City will present officially to the Interstate Stream Commission when Sections 2 and 8 have been approved as part of the plan. Mr. Erdman discussed points on the conservation plan and concerns as the plan was not put together well. Conservation: The plan itself is focused exclusively on municipal conservation not agricultural conservation but it also includes the explanation that 93% of the surface water used in the region is used for agriculture. We are a piece of the 7% that comes up from surface water and we are supposed to try to do some conservation within that. This is an example where the plan being applied across the state affects a municipality that has done aggressive conservation and accomplished so much.

The Chair added some history; the notion of creating a state water plan was initiated when Texas was exploring the export of NM ground water to the State of Texas. New Mexico found itself in a position of needing to confirm that; it needed all of its water. Part of the impetus was to show that demand exceeded supply and therefore we could not send our water out-of-state. In the interim there has been a tremendous restructuring of public dollars towards water related projects. Therefore, essentially is being funneled through the Water Trust Board and certainly the state is trying to look at the allocation of water through that Board so they have created a requirement when they ask for a "laundry list" which includes every project or policy that you have in place or is being worked on, that relates to water. Only if the project is in that list will it have the potential of being funded by the Water Trust Board but there is no attempt, if you will, to prioritize or have a selection process or structure/order. Much of the information that we have here at the city that is updated is not being considered as they are using data from 2010 which is distorted based on updated and future needs.

Mr. Erdman said that from a methodology stand point we have concerns with them using 2010 as a baseline year and the way they are doing what they call the administrative water budget, ground water modeling. Also

the GPCD, they have goals on conservation and we have already accomplished a lot of our GPCD goals. When people are already using as little water as they can, there isn't much savings there. There are also planning concerns, meetings weren't well attended; public involvement on water issues did not draw a following.

Mr. Erdman did stress and encourage the WCC members to read the presented 148-page document. Mr. Andy Otto, Santa Fe Watershed Association also added the importance that was stressed of adding everything and all to the list to be considered for Water Trust Board funding.

ACTION ITEMS:

8. Resolution No: 2016-25: Preliminary Report and Recommendation for Storm Water Policy Update (Melissa A. McDonald)

Memo dated June 8, 2016 provided to WCC members in packet for review of the Policy. The preliminary report concludes that the city has been doing a good job to date, but more progress can be made to support an infiltration approach to storm water management. This item will require the Mayor & City Council consideration of recommendations and staff direction to move forward. This resolution is related to storm water; this Committee has done an excellent job with infiltration through WERS and the Green Building Code. The Mayors Task Force opened the door for the discussion on storm water and its mismanagement of water release. The process included sending out a survey to everyone who deals with storm water in the city and we did this to find out how much they knew about green infrastructure as one of the mandates was, "let's make storm water have more of a green infrastructure." We wanted to know the barriers and benefits to implementing these types of measures. Survey results showed that many in our city do know how to use green infrastructure but maybe they lack confidence to implement it. We went out to the greater community and we asked them what they thought should be done with storm water. We continued to research with other states, we did our research and we came back with our recommendations. Ms. McDonald spoke from the document and verbally made reference to the recommendations by specificity. As part of recommendation #3, the city did very well in piping the water as quickly away as possible to moving in to the ponding structure, which is the next level. The work that is being done in the river is infiltrating water into the watershed at that centralized point and then it goes off in to the combined cistern. In recommendation #4 it will require for us to rewrite some of our code, where can we approve the code to have a better infiltration approach. Ultimately we will need to have a Storm Water Management Plan for the whole city. Back in the 90's there was a study done by Bohannon Houston and it never got implements Ms. McDonald believes that we will need to do that.

The Chair said if we are working towards engaging someone to help us with an overarching storm water plan, do we have that as a recommendation in this report? The Chair would like to use this Resolution to explore all of the opportunities available.

Ms. McDonald stated that in conversation with Ms. Chavez they have discussed the possibility of Rain Gardens at the Water Conservation Site and the River Commission is developing what is a rain garden and how do you implement it. The first step would be to get people aware that they could do this and we have developers that are knowledgeable of doing this. It is important to stress this is a public project. Thank you to Ms. McDonald on behalf of the WCC.

Mr. Pushard stated that he would like to see from the scorecard how much we are spending on storm water management. What can we do to reduce the cost? It will become less than a hidden tax and more like a visible tax. Once we know what we spend on these programs we know how to move forward.

The Chair corrected the statement and said that storm water fee a tax, it is a fee. Granted people may not understand that, we characterize it as a fee because if it were a tax it would have to be approved by the electorate. It was noted that in the past the funds from this fee were utilized to pay the staff salary's for those who maintain the streets after a storm. As of July 1, 2016 the funds will not be utilized in that manner, they will specifically go for capital improvement. During the budget process close to \$12 million in storm water projects were presented for consideration. We need a storm water plan in order for the Finance Director to clearly align this storm water budget.

Mr. Pushard moved to support Resolution No: 2016-25: Preliminary Report and Recommendation for Storm Water Policy Update, second by Mr. Roth, motion carried by unanimous voice vote.

9. Approval of Revisions to Chapter 25 – Water Conservation Section (Chapter 25 working group and Christine Chavez)

Mr. Michael moved to support and approve the revisions to Chapter 25 – Water Conservation Section, second by Mr. Wiman, motion carried by unanimous voice vote.

10. Assignment of Committee Members to new Working Groups (Christine Chavez)
Bill Roth – Group D – Water Conservation Codes, Ordinances and Regulations
Stephen Wiman – Group D - Water Conservation Codes, Ordinances and Regulations
Justin Lyon – Group B - Expansion of the K-12 Education Program and/or A – Irrigation Rebate and QWEL
Doug Pushard – Group A and Group D
Robert Coombe – Group B - Expansion of the K-12 Education Program and/or Group E – Water Conservation Scorecard
Tim Michael – Group E
Aaron Kauffman – Group B and Group D

Mr. Andy Otto, Santa Fe Watershed, Group B
Councilor Ives will provide his expertise in all groups as needed.

Mr. Pushard moved to approve the committee assignments as reflected above, second by Mr. Michael, motion carried by unanimous voice vote.

11. Recommendations on Implementation of the Strategic Marketing Plan (Doug Pushard)
WCC members reviewed the memorandum from Member Doug Pushard dated June 28, 2016 from WCC members to Ms. Chavez. The memo is inclusive of topics where the WCC members can assist. (Exhibit A)

Mr. Pushard moved to approve the recommendation on implementation of the Strategic Marketing Plan, second by Mr. Michael, motion carried by unanimous voice vote.

INFORMATIONAL ITEMS:

12. Group Reports from Water Conservation Committee Working Groups (no updates)
- Group A – Irrigation Rebate and QWEL
 - Group B – Expansion of the K-12 Education Program
 - Group C – Grant Exploration and Ideas
 - Group D – Water Conservation Codes, Ordinances and Regulations
 - Group E – Water Conservation Scorecard
13. SOURCE OF SUPPLY – Drought Update
Included in Packet for review (Exhibit B).

MATTERS FROM PUBLIC: NONE

MATTERS FROM COMMITTEE: NONE

NEXT MEETING – TUESDAY AUGUST 9, 2016:

ADJOURN

There being no further business to come before the Water Conservation Committee, the meeting was adjourned at 6:00 pm

Signature Page:

Peter Ives, Chair

A handwritten signature in cursive script, appearing to read "Fran Lucero", written over a horizontal line.

Fran Lucero, Stenographer

City of Santa Fe, New Mexico

LEGISLATIVE SUMMARY

Resolution No. 2016-____
Private Well Monitoring

SPONSOR(S): Councilor Ives

SUMMARY: The proposed resolution calls on the New Mexico Office of the State Engineer to order measuring and metering of all groundwater wells within the city of Santa Fe and to request an appropriation of funds from the legislature.

PREPARED BY: Rebecca Seligman, Legislative Liaison Assistant

FISCAL IMPACT: No

DATE: July 28, 2016

ATTACHMENTS: Resolution
FIR

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1 **WHEREAS**, the unauthorized use of water to which another water-right owner is entitled, or
2 the willful waste of surface or underground water to the detriment of another, or the public, is a
3 misdemeanor, NMSA 1978 § 72-8-4, § 72-12-11 (1943); § 72-5-39 (1965); and

4 **WHEREAS**, the OSE is responsible for conducting scientific research for making water
5 rights decisions, maintaining water rights records, and enforcing any conditions or restrictions on
6 water use; and

7 **WHEREAS**, there are hundreds of private water wells within the Santa Fe city limits; and

8 **WHEREAS**, it is urgent that the State Engineer conjunctively manage water of the Santa Fe
9 region within which groundwater and surface water and hydrologically connected as recognized by
10 the State Engineer's administrative procedures and groundwater modelling in the area; and

11 **WHEREAS**, currently, these private household water wells are not being metered; and

12 **WHEREAS**, reporting the amounts of groundwater being diverted by the water rights owners
13 in the Santa Fe region will aid in the accurate determination of the actual amount of groundwater
14 being beneficially used, which is essential if the efficiency of the application process is to be
15 improved and for the development of reliable, efficient water right markets; and

16 **WHEREAS**, the situation in the Santa Fe region meets many of the criteria associated with the
17 issuance of metering orders in other parts of New Mexico; and

18 **WHEREAS**, the legislature could be called upon to allocate funding necessary to accomplish
19 this purpose.

20 **NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BODY OF THE**
21 **CITY OF SANTA FE** that the Governing Body hereby calls on the New Mexico Office of the State
22 Engineer to require meters and monitoring of private water wells within the city of Santa Fe.

23 **BE IT FURTHER RESOLVED** that the Governing Body appeals to our state delegation to
24 request an appropriation of funds from the legislative for the metering of private wells within the city
25 of Santa Fe.

1 **BE IT FURTHER RESOLVED** that the City Clerk is directed to forward a copy of this
2 resolution to the New Mexico State Engineer and the City of Santa Fe State Legislative Delegation.


3 PASSED, APPROVED AND ADOPTED this ____ day of _____, 2016.

4
5 _____
6 JAVIER M. GONZALES, MAYOR

7 ATTEST:

8
9 _____
10 YOLANDA Y. VIGIL, CITY CLERK

11 APPROVED AS TO FORM:

12 
13 _____
14 KELLEY A. BRENNAN, CITY ATTORNEY

FIR No. 2850

City of Santa Fe Fiscal Impact Report (FIR)

This Fiscal Impact Report (FIR) shall be completed for each proposed bill or resolution as to its direct impact upon the City's operating budget and is intended for use by any of the standing committees of and the Governing Body of the City of Santa Fe. Bills or resolutions with no fiscal impact still require a completed FIR. Bills or resolutions with a fiscal impact must be reviewed by the Finance Committee. Bills or resolutions without a fiscal impact generally do not require review by the Finance Committee unless the subject of the bill or resolution is financial in nature.

Section A. General Information


(Check) Bill: _____ Resolution: X
(A single FIR may be used for related bills and/or resolutions)

Short Title(s) **A RESOLUTION CALLING ON THE NEW MEXICO OFFICE OF THE STATE ENGINEER TO ORDER MEASURING AND METERING OF ALL GROUNDWATER WELLS WITHIN THE CITY OF SANTA FE AND REQUESTING AN APPROPRIATION OF FUNDS FROM THE LEGISLATURE.**

Sponsor(s): Councilor Ives

Reviewing Department(s): Public Utilities -- Water Division

Persons Completing FIR: Andrew Erdmann Date: 8/1/16 Phone: 955-4204

Reviewed by City Attorney:  Date: 8/1/16
(Signature)

Reviewed by Finance Director:  Date: 8-1-2016
(Signature)

Section B. Summary

Briefly explain the purpose and major provisions of the bill/resolution:

The proposed resolution calls on the New Mexico Office of the State Engineer to order measuring and metering of all groundwater wells within the city of Santa Fe and to request an appropriation of funds from the legislature.

Section C. Fiscal Impact

Note: Financial information on this FIR does not directly translate into a City of Santa Fe budget increase. For a budget increase, the following are required:

- a. The item must be on the agenda at the Finance Committee and City Council as a "Request for Approval of a City of Santa Fe Budget Increase" with a definitive funding source (could be same item and same time as bill/resolution)
- b. Detailed budget information must be attached as to fund, business units, and line item, amounts, and explanations (similar to annual requests for budget)
- c. Detailed personnel forms must be attached as to range, salary, and benefit allocation and signed by Human Resource Department for each new position(s) requested (prorated for period to be employed by fiscal year)*

1. Projected Expenditures:

- a. Indicate Fiscal Year(s) affected – usually current fiscal year and following fiscal year (i.e., FY 03/04 and FY 04/05)
- b. Indicate: "A" if current budget and level of staffing will absorb the costs
 "N" if new, additional, or increased budget or staffing will be required
- c. Indicate: "R" – if recurring annual costs
 "NR" if one-time, non-recurring costs, such as start-up, contract or equipment costs
- d. Attach additional projection schedules if two years does not adequately project revenue and cost patterns
- e. Costs may be netted or shown as an offset if some cost savings are projected (explain in Section 3 Narrative)

Finance Director: _____

X Check here if no fiscal impact

Column #:	1	2	3	4	5	6	7	8
	Expenditure Classification	FY <u>17/18</u>	"A" Costs Absorbed or "N" New Budget Required	"R" Costs Recurring or "NR" Non-recurring	FY <u>18/19</u>	"A" Costs Absorbed or "N" New Budget Required	"R" Costs - Recurring or "NR" Non-recurring	Fund Affected
	Personnel*	\$ <u>300</u>	<u> A </u>	<u> R </u>	\$ <u>300</u>	<u> A </u>	<u> R </u>	<u>5300</u>
	Fringe**	\$ _____	_____	_____	\$ _____	_____	_____	_____
	Capital Outlay	\$ <u>160,000*</u>	<u> N </u>	<u> NR </u>	\$ _____	_____	_____	_____
	Land/ Building	\$ _____	_____	_____	\$ _____	_____	_____	_____
	Professional Services	\$ _____	_____	_____	\$ _____	_____	_____	_____
	All Other Operating Costs	\$ <u>6816</u>	<u> N </u>	<u> R </u>	\$ <u>6816</u>	<u> N </u>	<u> R </u>	<u>5300</u>
	Total:	\$ <u>167,116</u>			\$ <u>7116</u>			

* Any indication that additional staffing would be required must be reviewed and approved in advance by the City Manager by attached memo before release of FIR to committees. **For fringe benefits contact the Finance Dept.

2. Revenue Sources:

- To indicate new revenues and/or
- Required for costs for which new expenditure budget is proposed above in item 1.

Column #:	1	2	3	4	5	6
	Type of Revenue	FY <u>17/18</u>	"R" Costs Recurring or "NR" Non-recurring	FY <u>18/19</u>	"R" Costs - Recurring or "NR" Non-recurring	Fund Affected
	_____	\$ _____	_____	\$ _____	_____	_____
	_____	\$ _____	_____	\$ _____	_____	_____
	_____	\$ _____	_____	\$ _____	_____	_____
	Total:	\$ _____		\$ _____		

*This resolution calls for the costs for purchasing and installing the meters, estimated at \$160,000 for 800 meters at \$200/meter, to be borne by the State of New Mexico.

3. Expenditure/Revenue Narrative:

Explain revenue source(s). Include revenue calculations, grant(s) available, anticipated date of receipt of revenues/grants, etc. Explain expenditures, grant match(s), justify personnel increase(s), detail capital and operating uses, etc. (Attach supplemental page, if necessary.)

These meters will collect data from privately owned wells and will not, for that reason, result in increased revenues for the city. The cost of installing the meters is estimated at \$160,000 assuming a cost of \$200 per meter for an estimated 800 meters.

Section D. General Narrative

1. Conflicts: Does this proposed bill/resolution duplicate/conflict with/companion to/relate to any City code, approved ordinance or resolution, other adopted policies or proposed legislation? Include details of city adopted laws/ordinance/resolutions and dates. Summarize the relationships, conflicts or overlaps.

None identified.

2. Consequences of Not Enacting This Bill/Resolution:

Are there consequences of not enacting this bill/resolution? If so, describe.

Water withdrawn from wells in the city of Santa Fe would not be metered.

3. Technical Issues:

Are there incorrect citations of law, drafting errors or other problems? Are there any amendments that should be considered? Are there any other alternatives which should be considered? If so, describe.

None identified.

4. Community Impact:

Briefly describe the major positive or negative effects the Bill/Resolution might have on the community including, but not limited to, businesses, neighborhoods, families, children and youth, social service providers and other institutions such as schools, churches, etc.

If passed, this resolution would call on the state legislature and state engineer's office to require, and pay for, meters on privately owned domestic wells within the city of Santa Fe. If the legislature were to act on this direction, it would result in well data being collected from individual wells that have not previously reported their water usage. This could have a positive impact on the larger community by improving the tools available to water managers to better understand total water use within the city, and could have a negative impact on the owners of the individual wells who may feel that their water right is being infringed upon in a manner which modifies their lifestyle practices.

**City of Santa Fe, Source of Supply Section/Water Division
Water Production Update
Public Utilities Committee Meeting
August 3, 2016**

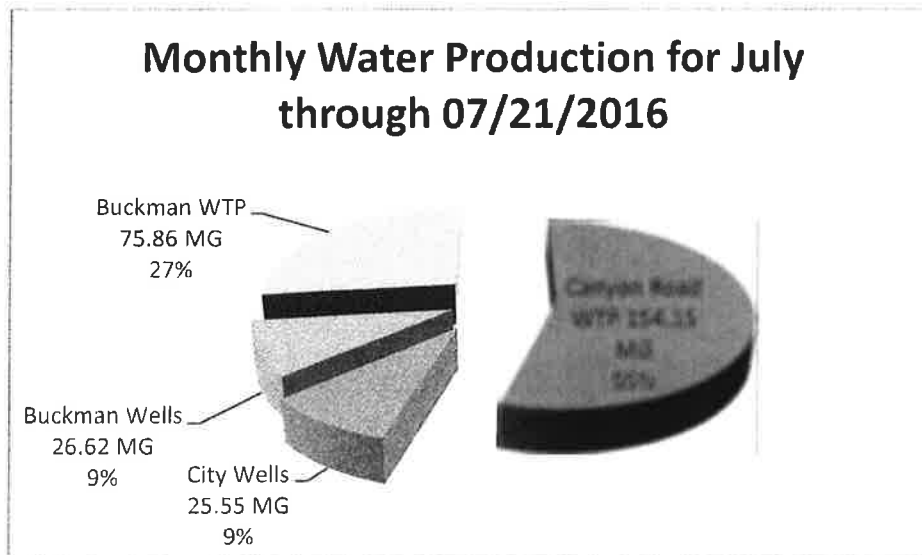
Filter Plant Demolition

Nick Schiavo and Alex Puglisi met with the City's Parks and Recreation Division on July 13th to discuss transfer of the site to their authority and possible future Dale Ball Trail Connector alignments.

Water Production for March (through 06/26/2016)

Water production at the Canyon Road Water Treatment Plant (CRWTP) increased significantly from previous months during 2016 due to the temporary shutdown of the Buckman Direct Diversion for repairs in June and reduced total production levels through July. Production at the CRWTP was 154.15 million gallons or a daily average of 7.34 MGD for the month. The Buckman Regional WTP produced 75.86 MG or an average of 3.61 MGD. Total production for the first 21 days of July from all sources was approximately 282.18 MG. Production levels by for the water system from individual sources are illustrated in the chart below. Average daily usage (customer demand) during the month of July through 07/21/16 was 13.44 MGD.

Nichols Reservoir storage levels have increased and are at 173.03 MG, or 80.3% storage, on July 21st. The storage level of McClure Reservoir has decreased to 465.04 MG during July, or approximately 42.3.0% of capacity. The combined storage level for both reservoirs is 638.1 MG or 49%. Current Santa Fe River inflow levels to McClure Reservoir have dropped dramatically since May and are at 1.08 MGD on this date in contrast to 3.25 MGD at the end of June.



Baca Street Well

The Source of Supply Section and has been in continued communication with the New Mexico Environment Department - Petroleum Storage Tank Bureau with regards to monitoring and remediation of this site pursuant to the Petroleum Storage tank regulations and Corrective Action Fund. PNM is in the process of locating previously

drilled offsite wells that were used in the past to monitor the spread of contamination at the site and surrounding areas. PNM plans to initiate sampling of all previously sampled wells during the week of August 1st.

Tier II SDWA Disinfection Rule Violation

The City of Santa Fe was in receipt of this notice of violation from the New Mexico Environment Department on July 19, 2016. The City understands that the nature of the violation cited in the notice was that no chlorine residual was detected in six of the disinfection residual monitoring samples out of the eighty samples taken on that day. This represents two sites over the allowable number in the Rule, which allows no detection of a disinfectant residual in 5% of all sites (80) tested. However, all of the eighty samples tested for chlorine residual and bacteriological contamination, including the aforementioned six samples, were negative for the presence of any contamination such as Total Coliform bacteria and E. coli. Therefore, there was no immediate threat to public health. The City is taking immediate steps to rectify the lack of chlorine residual at some monitoring stations. These include the following:

- Chlorine levels on produced water have been raised at both the Buckman Regional Water Treatment Plant and Canyon Road water Treatment Plant, as well as all operating wells, to ensure chlorine residuals throughout the system, as determined by continued testing.
- All operating wells will be set to ensure chlorination at sufficient levels, as determined by continued testing, at the well or at the storage tank (10 MG), as a rule.
- Samplers will be required to calibrate their meters to an in-house meter (with known accuracy) every time sampling occurs instead of just field calibration to a blank.
- Samplers will take additional samples when monitoring of the 80 sites occur if the number of non-detects exceeds 5% of the minimum 80 required samples to ensure compliance while also detecting possible areas of concern. (The Rule allows additional sites to be tested and counted.)
- All sample sites with no Cl₂ residual in June will be retested over the next several weeks to determine if there is a problem in the system that may be causing over-consumption or depletion of Cl₂. (Some of the sites were near the periphery of the system, but not all.)
- Resampling of sites first will be used to determine if system problems exist. (i.e., stagnant water due to low usage in specific areas, chlorine volatilization due to increased water temperatures, etc.) Distribution system problems will be referred to our Transmission and Distribution Section for correction; and,
- A map of the six areas is being put together by the Source of Supply Section to determine the relation of the sites to any known distribution system problem we had around the date of sampling (e.g., line breaks, dirty water, etc.). We will coordinate that effort with our Transmission and Distribution Section.

Downtown Ground Water Monitoring Project

INTERA Incorporated (INTERA), under contract with the New Mexico Environment Department (NMED), has completed groundwater and vadose zone assessment activities at five wells for historic areas in downtown City of Santa Fe (City), Santa Fe County (County), New Mexico. The current area of interest (Site) identified for investigation is bounded to the north and east by Paseo De Peralta, the south by East Alameda, and to the west by North Guadalupe Street. Planned investigation activities include the design and installation of preliminary characterization and monitoring system(s) for both groundwater and soil vapor in historic portions of downtown Santa Fe followed by periodic sampling of such system(s), as appropriate, for the purposes of identifying and monitoring environmental contaminants of potential concern (COPCs).

The New Mexico Environment Department and the City will receive results of samples taken in five new wells downtown by INTERA once they are made available by the contracted analytical laboratory.

Drought and Monsoon Update

Drought conditions have eased this past year due to the reappearance of a strong El Nino, although February – June has been relatively dry. NOAA has recently (7-25-16) updated **ENSO (El Nino) status to: neutral conditions are now present with increasing likelihood for La Nina conditions (hot/dry) to develop by the late summer, with about a 55%-60% chance of La Nina during fall and winter 2016/17, perhaps beginning as early as August.** The dynamic model average indicates La Nina by August, while the statistical models predict a transition to La Nina by fall. Dry conditions in 2016/17 could present significant challenges to all water purveyors, water utilities, and irrigators if there is not significant filling and carry-over storage in regional reservoirs from the current run-off season and/or monsoon rains. Regional reservoir levels on the upper Santa Fe, Rio Grande, and Chama Rivers are still low but rising due to warmer temperatures and resultant snowmelt runoff. Preliminary estimates are for an approximate 95%-100% delivery of full firm-yield of San Juan-Chama Project 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 went back into effect 4/22/16, 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 AF (unless an exchange for water is made with the NMISC). Updates to this condition will be made as needed.

Current City of Santa Fe 2015/2016 SJCP Reservoir Storage:

Heron:

4,492 AF (2015 SJCP water must be vacated by September 31, 2016 pursuant to a BoR waiver). 2016 deliveries are at 95% of annual total, as of 7/1/16.

El Vado:

2,968 AF

Abiquiu:

8,970 AF SJCP carry-over from previous years, no time limit to vacate due to storage agreement with ABCWUA

TOTAL:

16,430 AF