



AGENDA

..... for the regular meeting of the Public Utility Commission of the City of Farmington, Wednesday, **September 14, 2016 at 3:00 pm** in the Executive Conference Room at City Hall, 800 Municipal Dr., Farmington, New Mexico.

I. GENERAL

- A. Roll Call
- B. Convening of Meeting by Dr. James Spence, Chair
- C. Minutes of August 10, 2016 regular meeting submitted for approval..... 1

II. BUSINESS

- A. Water/Wastewater Report - Jeff Smaka (5 min) 2
- B. Water/Wastewater Operations Report - Ron Rosen (5 min) 3
- C. NewGen Presentation - Cost of Service and Preliminary Rate Design
Joe Mancinelli, Jessica Terry, Sue Nipper Greaves (40) min 4
- D. Electric Utility Report - Sue Nipper Greaves (5 min) 5
- E. Director's Report - Rodney Romero (5 min) 6
- F. City Manager Business - Introduction of new director Hank Adair
Rob Mayes (5 min) 7

III. ADJOURNMENT

The next regular meeting will be on October 12, 2016

The City of Farmington will make every effort to provide reasonable accommodations for people with disabilities who wish to attend a public meeting. If you need to request that an accommodation be made, please notify the Electric Administration office (599-1160) at least 24 hours prior to the meeting.

BOARD OF PUBLIC UTILITY COMMISSIONERS

The regular meeting of the CITY OF FARMINGTON BOARD OF PUBLIC UTILITY COMMISSIONERS was held Wednesday, August 10, 2016 at 3:00 p.m., in the Executive Conference Room at City Hall, 800 Municipal Dr., Farmington, New Mexico, in full conformity with the laws and ordinances of the Municipality.

GENERAL

Commission members present: James Spence
Marty Johnson
Rubin Armenta
Bill Hall (arrived at 4:05 pm)
Tory N. Larsen
Chris Hunter

Commission members absent: Gordon Glass
Bill Standley
Jeff Parkes
Carol Cloer

City Council Liaison: Gayla McCulloch

City personnel present:

Acting Electric Utility Director	Rodney Romero
Electric Business Operations Manager	Sue Nipper Greaves
Electric Generation Manager	Britt Chesnut
Electric Engineering Manager	John Armenta
Electric Transmission and Distribution	Luke Lugenbeel
Customer Service	Nicki Parks
Public Works Director	David Sypher
Public Works Department	Jeff Smaka
OMI/CH2MHill	Ron Rosen
Administrative Services	Andy Mason
Administrative Services Accounting	Sheree Wilson
Legal	Jennifer Breakell
City Manager	Rob Mayes
PUC Secretary	Amy McKinley

Chair Spence called the meeting to order at 3:05 p.m.

BUSINESS

Quarterly Financial Report:

Mr. Mason offered a report on the Electric Utility Financial Statement for the 4th quarter ending June 30, 2016. He said the utility's net income decreased \$840 thousand from FY2015; Operating Revenues were \$2.8 million lower from FY2015 and Operating Expenses were lower by \$513 thousand. Mr. Mason reported that non-operating revenues increased \$228 thousand, mainly due to increases in capital contributions and expenses decreased \$1.2 million due to decreases in the dividend transfer.

Mr. Mason presented details of the Water Utility Financial Statement for the 4th quarter ending June 30, 2016. His report showed the Water Utility net income was up by \$347 thousand from last year; operating revenues increased \$1.8 million and operating expenses increased \$404 thousand. Mr. Mason said water operating expenses increased \$404 thousand. The report indicated Non-operating revenues decreased \$954 thousand mainly due to no proceeds from grants. Non-operating expenses increased \$140 thousand.

Commissioner Hunter asked for clarification about why the OMI contract increased 20% from last year. Mr. Mason deferred to Public Works personnel. Mr. Smaka stated the dollar amount in this report includes the OMI contract and the expenses that fall under the Additional Services Agreement. Commissioner Hunter requested the ASA expenses be placed on a separate line item.

Mr. Mason reported on the Wastewater Utility's Financial Statement for the 4th quarter ending June 30, 2016. He said the wastewater utility had a net income of \$2.2 million which is higher than last year by \$484 thousand. He said the operating revenues showed an increase of \$596 thousand from last year which was driven by the user fees; residential was \$338 thousand higher and commercial showed a decrease of \$54 thousand. Mr. Mason said the total wastewater user fees were up \$405 thousand.

Customer Service Report:

Ms. Parks, Customer Care Manager provided a presentation detailing the statistical data regarding the many services provided to customers. Ms. Parks reported Customer Service staff assist an average of 5,640 walk-in customers per month at the MOC location and 3,963 walk-in customers at the Annex location. She said Customer Service takes an average of 17,994 phone calls per month through the city's IVR phone system; these are citywide calls some of which are routed to Customer Service. Ms. Parks reported an average of 3,374 disconnect notifications due to non-payment are delivered each month and 2,039 of these disconnects are sent out to the field each month. Ms. Parks noted the various bill payment methods used; her data demonstrates that a significant amount of City of Farmington utility customers, 11,581 customers per month on average, make face to face contact with Customer Service personnel; 14,314 payments are received by mail from the Denver lockbox.

Water/Wastewater Report:

Mr. Smaka offered a review of the Water /Wastewater activities for the month of July, 2016. He said RMCI, Inc. was awarded the \$20.3 million contract for the Wastewater Treatment Plant improvements. Mr. Smaka reported the 2P Waterline Project Phase I received a loan from NMFA and this project will go out for bid late fall 2016 with construction to begin spring 2017. Mr. Smaka reviewed the many renewal and replacement projects taking place throughout the city. General discussion ensued regarding the contract with Animas Valley Water Association to service Animas Valley customers in the Crouch Mesa area.

The arrival of additional Commissioners allowed for a quorum to be present and Chair Spence asked for a motion to approve the Minutes of July 13, 2016 PUC meeting. Commissioner Hunter made a motion to approve the July 13, 2016 PUC Minutes and Commissioner Johnson seconded; the motion passed unanimously.

Water/Wastewater Operations Report:

Mr. Rosen, OMI, presented information regarding the water/wastewater operations for the month of July. He reported the Animas River monitoring indicated that trends are normal for seasonal flows; the July flows peaked on July 2 at 1800 CFS. Mr. Rosen noted the peaks in flow are caused by rain events. The report indicated 55 meters were installed in 2016 versus 39 meters installed in 2015 for the same 5-month time period.

Mr. Rosen said the draft NPDES permit from the EPA was received and staff is reviewing this permit. He said this draft permit shows the EPA has relaxed the TDS limit from 400mg/l to 497mg/l.

Commissioner Armenta asked if the improvements at the Wastewater Treatment Plant will decrease the TDS levels. Mr. Rosen said UV disinfection will be used rather than the use of Chlorine and bisulfate to de-chlorinate so there will be a diminished amount of TDS generated from those chemicals.

Update on FEUS Rate Study and Cost of Service Study:

Ms. Nipper Greaves and Mr. Joe Mancinelli and Ms. Jessica Terry of NewGen (by phone) offered an update on the development of the FEUS Rate Study and Cost of Service Study. Mr. Mancinelli and Ms. Terry provided information regarding the amortization of expenses and revenues over several years from the actual FY2015 budget figures to create a Test Year 2015. The Test Year 2015 figures will also be used to determine a Cost of Service and then translate this into rates. It is noted that many policy decisions go in to rate making and the policy decisions will be considered as the cost of services is translated to rates.

Commissioner Larsen asked if any adjustments were made for the San Juan Regional Medical Center solar facility when creating the Test Year 2015 and Ms. Nipper Greaves confirmed that no adjustment was made for this solar facility.

Commissioner Hunter asked about avoided costs and wanted confirmation that an assumption in the study includes no subsidies for distributed generation. Mr. Mancinelli said no subsidies are included in the study.

NewGen and FEUS personnel are reviewing FEUS Pole Attachment rates to ensure they are consistent with SEC and APPA methods; they are also reviewing avoided costs to fine tune the avoided cost analysis. NewGen is also reviewing FEUS' method for developing construction labor and related overhead rates. NewGen is presently reviewing cost of service and determining the cost to serve different customer classes, identifying fixed and variable cost components within each class. Ms. Terry stated NewGen created a FY2015 Test Year by using FY2015 expenses and revenues. The FY2015 expenses were then adjusted by averaging over five years the Capital plan, amortizing O&M expenses, removing one-time FY2015 expenses. The FY2015 revenues were adjusted by normalizing the November 2015 rate change, an adjustment for the 10% decrease in bulk power sales and the reduction of wholesale transmission customers and sales. The PCA was also reviewed to ensure that any adjustments made in the revenue requirement were appropriately flowing through the PCA.

Commissioner Armenta asked if the economy will have any effect on the rate model. Mr. Mancinelli said the cost of service is an important benchmark to judge decisions on and the commission should definitely try to move toward the cost of service, but local economic issues will play a role in deciding what is reasonable per customer class.

Commissioner Hunter asked about Time of Use metering and how it would play a role on the residential customer class. Mr. Mancinelli said time of use metering is a nice tool; utilities have had time of use metering but have not used the tool effectively. In effect, what time of use metering allows a utility to send different pricing signals at different times and to the extent that it helps a utility improve overall system load factor or improve or reduce usage during the most expensive periods to serve, and this information can change behavior, then it is a benefit, but achieving this is easier said than done because pricing signals must be sent that get a customer's attention; if the on-peak versus off-peak pricing is not significant, minimal reaction will be achieved. Mr. Mancinelli said if there is a significant on/off peak differential, it is noted that customers respond to these signals and they can be very valuable to the utility; it is not just the metering, it is the pricing signal that goes with the meter.

Commissioner Hunter asked if NewGen knew of any utilities that give residential customers a choice between time of use metering and flat rates. Mr. Mancinelli said this is quite common and giving residential customers this choice could be a good option.

Electric Utility Report:

Ms. Nipper Greaves offered a condensed version of the Electric Utility Report with year to date utility information presented. Ms. Nipper Greaves reported that when comparing FY2016 figure with FY2015, GW sales for FY2016 are down approximately 4.93%, industrial sales were down 12.68%, residential sales were up 1.5% and commercial sales were down 1%. The revenue comparison shows the residential revenue was up 5.5%, commercial revenues were flat, industrial revenue was down approximately 10%.

Ms. Nipper Greaves noted the PCA cost is anticipated to be lowered to \$0.015 on September 1, 2016.

Director's Report:

Mr. Romero updated the Commission on the cause of the power outage that affected the San Juan Regional hospital. He said maintenance work was being performed at the Animas Distribution Substation; testing of the power transformer at Animas was also scheduled. To accomplish the maintenance work and the transformer testing, crews were transferring load from Animas substation to the Bluffview substation which is a normal practice; crews were in the switching process and as the first feeder was switched on a problem was discovered in the relay protection in the distribution at the Bluffview station. Staff initially felt there was an error in the relay settings which tripped out the transformer at Bluffview causing an outage for all of the Bluffview station, which is south Farmington. Because the first feeder off of the Animas substation was switched off, which happens to be the hospital feeder, the hospital had both its primary feeder and back up feeder out of service, which caused the hospital to

activate their diesel generators. FEUS staff are performing an after action review of this incident.

Mr. Romero reviewed the ongoing electric underground construction taking place along the 20th Street project.

Chair Spence asked City Manager Mayes to comment on the status of the search for a Director for the Electric Utility. Mr. Mayes announced the promotion of Rodney Romero to the position of Deputy Director for the Electric Utility and the selection of Mr. Hank Adair as the new Electric Utility Director.

ADJOURNMENT

There being no further business to come before the Commission, upon motion duly made and seconded, the meeting was adjourned.

The meeting was adjourned at 4:47 p.m.

Approved this 14th day of September, 2016.

James Spence, MD, Chair

CITY OF FARMINGTON – PUBLIC WORKS DEPARTMENT (PW)	
Division: Water-Wastewater	Program: Water & Wastewater
Report Prepared by: Jeff Smaka	Title: Water/ Wastewater Administrator
Reporting Period: Aug 1 through Aug 31,2016	PUC Meeting Date: 14 Sept 16

ACCOMPLISHMENTS

- **Waste Water Treatment Plant.** Phase III Design – HDR Engineering completed plant design with staff to review the plant layout, equipment selection and design capacity of the proposed improvements. Construction of WWTP Phase III improvements to provide redundancy at the WWTP and maintain compliance with EPA permit. NMED approved funding the waste water treatment plant upgrade through the Clean Water State Revolving Loan Fund (CWSRF) program. Design – Completed; Contract awarded to RMCI Inc. from Albuquerque - \$20,303,500; Contractor Mobilized on August 22 – started demolition of silo foundations.
- **O& M Contract.** Operation and Maintenance Contract with CH2M - 8-year contract; 2016 - 2023.
- **Utility Rates.** Ordinance 2014-1271 adopted by City Council - Nov 11, 2014. Water and wastewater rates 2nd year increase will begin with first billing cycle in Dec 2015
- **Engineering Design Contract.**
 - 2P Waterline Replacement Project - Phase I – HDR has completed 90% design drawings. Project funding under DWSRF program through NMFA. City Council approved loan application on August 11, 2015; this project is in the City's Infrastructure Capital Improvement Plan submitted to the state. Phase I estimated cost \$3.2 million. City working with NMFA on loan ordinance – loan closing August 2016
 - 2P Waterline Replacement Project - Phase II – US64 – Intersection of Camina Flora to Miller Ave – Submitted preliminary project interest form to NMED – Estimated Cost \$3.6 million
 - LaPlata Highway - Project redesign for water line replacement and NMDOT permitting; staff will be hiring a consultant for this project.
- **Capital Project Review.**
 - **Capital Improvement Project**
 - Penny Lane Low Head Dam Modifications - Riverbend Engineering - Design completed; U.S. Army Corps of Engineers permit has been issued for project - Rebidding project – Bid Opening scheduled for Sept 13, 2016, Anticipate Construction November to January.
 - **Renewal and Replacement**
 - Wildflower Parkway - 4P Pump Station - Cheney-Walters-Echols (CWE) has completed pump station design. Settled on for new pump station site - Construction of new pump station 2016/2017. Property appraisal is scheduled.
 - Foothills Dr. - Holmes to Lakewood - Replace existing 16" steel waterline with a 16" PVC waterline - Construction 98% complete.
 - Foothills Dr. - Main to Hill n Dale - Replace existing 16" steel waterline with a 16" PVC waterline - Construction 95% complete.
 - Foothills Dr. - Hill n Dale to Holmes - Replace existing 16" steel waterline with a 16" PVC waterline - design completed, construction summer 2017.
 - W. Main Street - W. Murray Dr to Valley Vista Dr - Replace existing 6" CI waterline with a 12" PVC waterline & Replace existing 8" clay tile sewer line with a 18" PVC sewer line - Preparing bid documents, Construction 2016/ 2017.
 - 20th Street - Schofield Ave. to Hutton Ave. – Replace 10" CI with a 12" PVC waterline – Construction 98% complete
 - 20th Street - Hutton Ave. to Main St. - Replace 10" CI with a 12" PVC waterline – design completed, Construction 95% complete.
 - **Pressure Reducing Valve (PRV)**
 - none

- **Sewer Lift Stations**

- Lift Station 9 Improvements (109 Meadow View Dr.) – The project is to rehab of the existing lift station which includes the mechanical, pumping equipment and electrical systems of lift station 9. Project is in design – 75% complete, Construction in FY17.
- Lift Station 12 Improvements (1214 Mossycup Dr.) – The project is to rehab of the existing lift station which includes the mechanical, pumping equipment and electrical systems. Design in FY17, Construction in FY18.

- **Budget.** - FY17 –

- **COF Department Support.** Survey support to acquire manhole data for future sewer collection system model continues

- **Annual Utility Contract.** – Contract awarded to TRC Construction Inc. from Flora Vista, NM

- **Federal Funding –**

- Water Projects – 2P Waterline Improvement Project

- Staff submitted a funding request to NMED (DWSRLF) for the project to replace the existing 6” and 8” cast iron waterline (approximately 30,000 LF) along US 64 and various side streets. Estimated probable cost \$8,160,000. – Project has been broken into three phases – Phase I – Estimated cost \$3,200,000

- Wastewater Projects - WWTP – MRAS Basin, Final Clarifier, Solids Handling Facility & UV Disinfection – NMED funding source is the Clean Water State Revolving Loan Fund (CWSRF) Program – Project approved by NMED, Loan amount \$22,000,000.00, - Term 20 years, Interest Rate 3%, Contract awarded to RMCI Inc. from Albuquerque - \$20,303,500

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- **PROJECTS / INITIATIVES REQUIRING INTER-DIVISIONAL COORDINATION**

- **Farmington Reach – Navajo Municipal Pipeline.**

- Working with Bureau of Reclamation and Navajo Tribe for agreements to transfer title to the City for the tank and pipeline project along with an Operation, Maintenance and Replacement (OM&R) agreement as required by Federal law - March 2009.

- **WWTP NPDES PERMIT – EPA.** Existing NPDES permit went into effect on November 1, 2010 permit expires October 31, 2015. Received Draft permit from EPA on August 1 – Comment period closes August 28, 2016. City staff, CH2M and HDR Engineering are reviewed draft permit and submitted a few comments on draft permit.

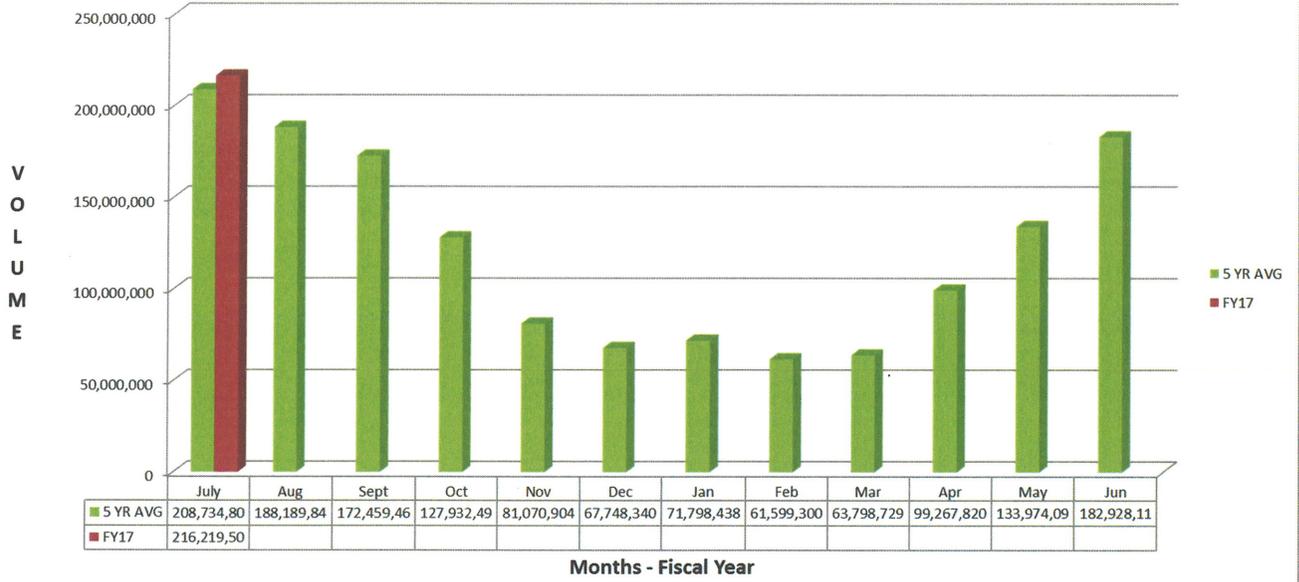
- **Snowpack - Water Year 2016 - BOR reporting site: **Site offline until fall****

- Animas River Basin – 0%
- San River basin - 0%

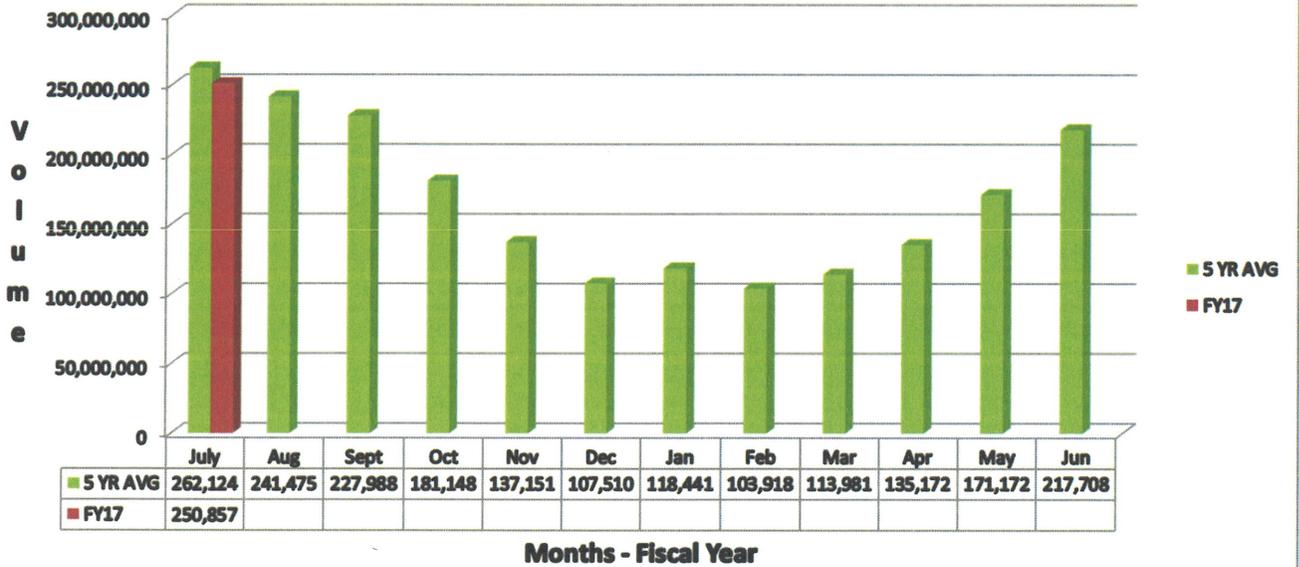
ATTACHMENTS

**WATER USAGE - RESIDENTIAL CUSTOMERS
WATER USAGE - COMMERCIAL CUSTOMERS
WATER FUND (602) - RENEWAL & REPLACEMENT
WASTEWATER FUND (603) - RENEWAL & REPLACEMENT
GRAPH WATER REVENUE FY 12 – FY16**

Residential Classification Usage - Gallons



Commercial Classification Usage - Gallons



WATER

Renewal & Replacement

Water Fund - 602

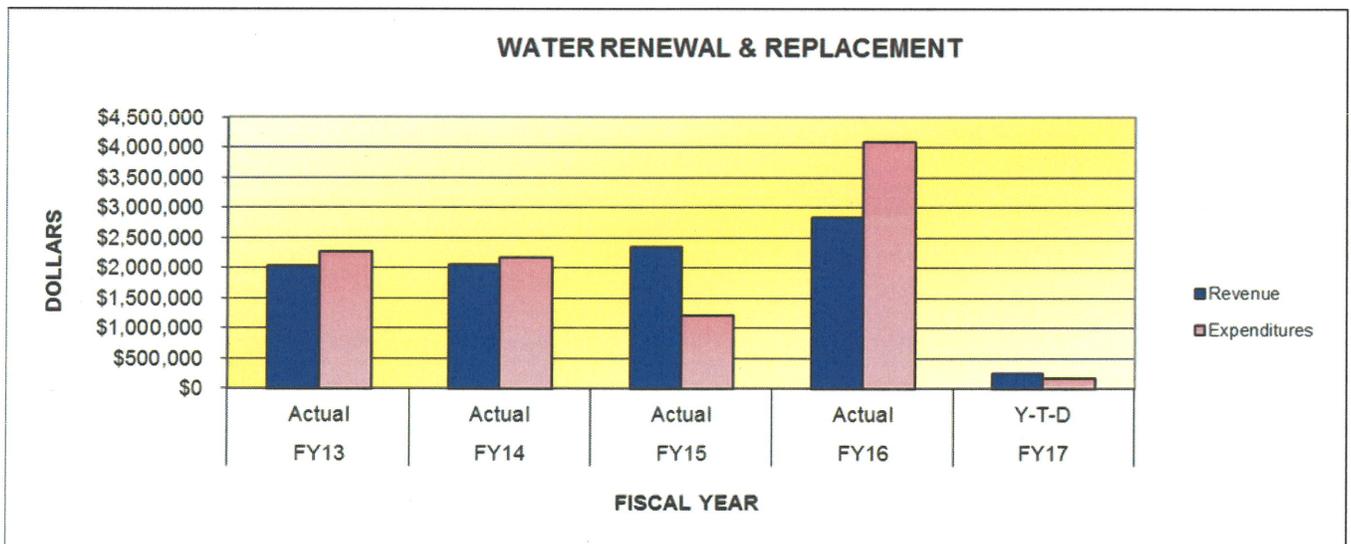
REVENUES	FY13 Actual	FY14 Actual	FY15 Actual	FY16 Actual	FY17 Y-T-D	FY17 Budget
Renewal /Replacement Fee	\$2,037,806	\$2,057,949	\$2,344,912	\$2,846,357	\$248,288	\$2,892,563
STATE GRANT - \$825,000						
REVENUE TODATE				\$18,774,472		
PROJECTED REVENUE FY07 - FY17						\$21,667,035

EXPENDITURES	FY13 Actual	FY14 Actual	FY15 Actual	FY16 Actual	FY17 Y-T-D	FY17 Budget
RENEWAL/REPLACEMENT						
Construction	\$2,278,859	\$2,164,752	\$1,212,214	\$4,089,654	\$178,400	\$5,000,000
PROJECTED EXPENDITURES FY07 - FY17				\$17,438,631		\$22,334,618

Main St. - Miller Ave to Orchard Ave.	\$250,000
Foothills Dr - Hill & Dale Dr. to Holmes Dr.	\$565,000
20th St - Hutton Ave to Main St	\$600,000
W. Navajo St - Municipal Dr to Mc Henry Dr.	\$350,000
W. Navajo St - McHenry Dr. to airport bldg	\$530,000
San Juan Blvd - Scott Ave to Fairview Ave.	\$600,000
Broadway - Auburn Ave to Miller Ave	\$560,000
Broadway - Schwartz Ave to Lake St	\$325,000
Schwartz Ave - Broadway to Apache St.	\$550,000
Northwood Dr - Crescent Ave to 30th St.	\$100,000
Polyline Service Replacement	\$200,000
Line Abandoment	\$150,000
Fire Hydrant 1960 Replacement	\$100,000
	\$4,880,000

PROJECTED EXPENDITURES FY07 - FY17

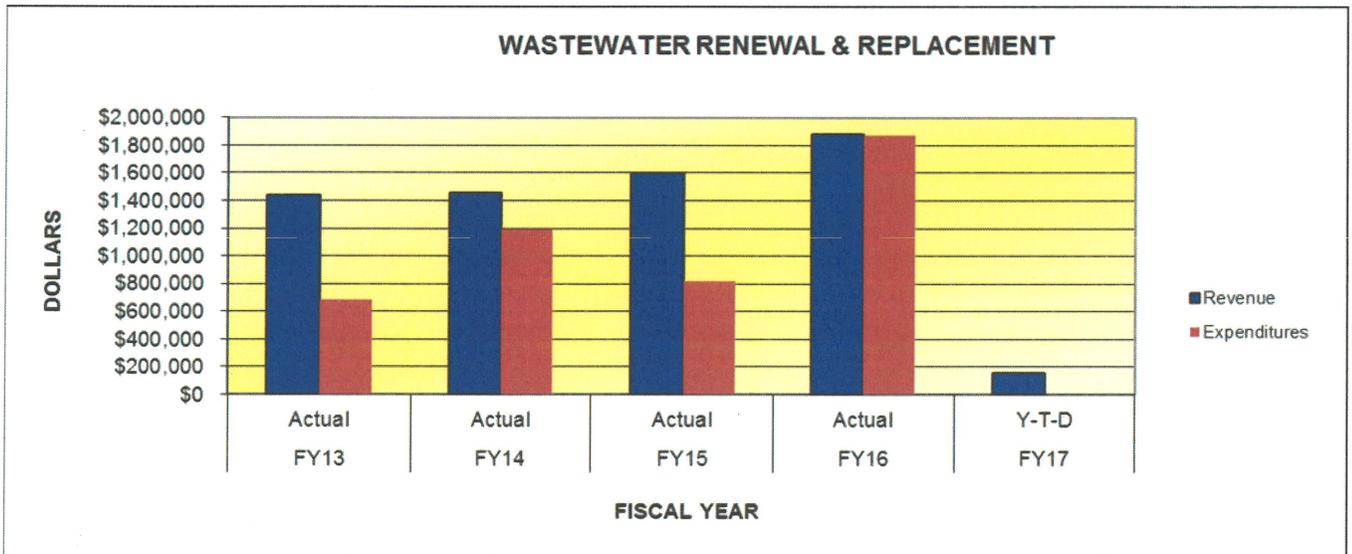
\$22,276,883

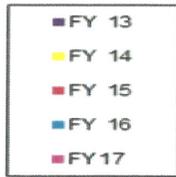


Renewal & Replacement

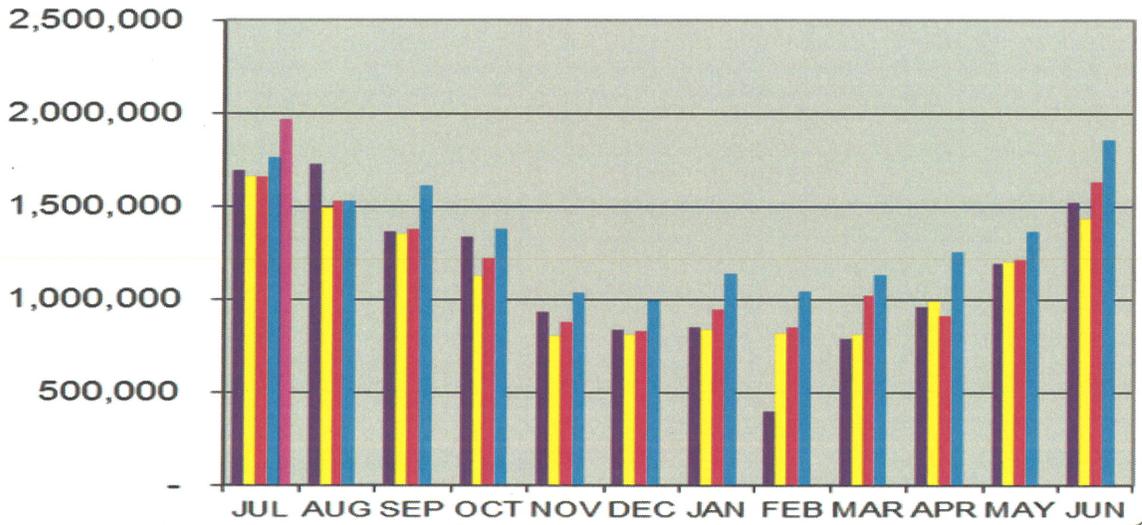
Wastewater Fund - 603

	FY13	FY14	FY15	FY16	FY17	FY17
	Actual	Actual	Actual	Actual	Y-T-D	Budget
REVENUES						
Charges for Utility Services						
Renewal /Replacement Fee	\$1,441,591	\$1,456,143	\$1,601,781	\$1,880,232	\$156,904	\$2,006,355
REVENUE TODATE				\$12,595,055		
PROJECTED REVENUE FY07 - FY17				\$1,880,232		\$14,601,410
EXPENDITURES						
RENEWAL/REPLACEMENT						
Construction	\$685,848	\$1,194,237	\$817,221	\$1,869,097		\$2,006,355
Projects FY07- FY17				\$8,187,975		
BUDGETED FY 17 PROJECTS						
Sewer Rehab - W Main St				\$1,750,000		
Manhole Rehab				\$150,000		
Mainline Rehab - Robotic				\$350,000		
				\$2,250,000		
PROJECTED EXPENDITURES FY07 - FY17						\$10,437,975





Total Water Revenue Per Month FY13 - FY17



BUDGET TO ACTUAL COMPARISON PER MONTH

	FY 2013 **		FY 2014 **		FY 2015 **		FY 2016 **		FY 2017 **	
	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual
JUL	1,165,141	1,696,293	1,196,227	1,657,429	1,152,420	1,660,611	1,305,656	1,760,696	1,305,656	1,964,875
AUG	1,165,141	1,725,060	1,196,227	1,495,029	1,152,420	1,525,823	1,305,656	1,530,739	1,305,656	
SEP	1,165,141	1,362,607	1,196,227	1,349,906	1,152,420	1,379,367	1,305,656	1,608,774	1,305,656	
OCT	1,165,141	1,338,557	1,196,227	1,123,250	1,152,420	1,222,276	1,305,656	1,379,285	1,305,656	
NOV	1,165,141	936,091	1,196,227	805,566	1,152,420	878,377	1,305,656	1,039,055	1,305,656	
DEC	1,165,141	839,767	1,196,227	813,492	1,152,420	832,341	1,305,656	996,111	1,305,656	
JAN	1,165,141	851,542	1,196,227	838,647	1,152,420	948,366	1,305,656	1,138,593	1,305,656	
FEB	1,165,141	401,518	1,196,227	818,588	1,152,420	850,813	1,305,656	1,041,098	1,305,656	
MAR	1,165,141	788,759	1,196,227	812,113	1,152,420	1,021,237	1,305,656	1,133,244	1,305,656	
APR	1,165,141	958,767	1,196,227	989,646	1,152,420	914,504	1,305,656	1,254,785	1,305,656	
MAY	1,165,141	1,194,193	1,196,227	1,203,797	1,152,420	1,212,303	1,305,656	1,361,525	1,305,656	
JUN	1,165,141	1,520,186	1,196,227	1,433,479	1,152,420	1,630,441	1,305,656	1,855,752	1,305,656	
TOTAL:		13,613,340		13,340,942		14,076,459		16,099,657		1,964,875

REVENUE PER CLASS/CUSTOMER

	FY 2013		FY 2014		FY 2015		FY 2016		FY 2017	
	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual
R	6,481,728	6,464,202	6,676,180	6,110,737	6,458,000	6,535,453	7,254,451	7,173,050	7,254,451	
GS	3,447,238	3,107,129	3,550,655	3,304,044	3,373,100	3,310,784	3,777,872	4,053,707	3,777,872	
CU	1,129,104	1,123,093	1,151,686	1,026,032	1,049,500	1,011,584	1,126,982	1,014,390	1,126,982	
REC	225,000	264,196	250,000	244,954	260,000	252,046	273,000	280,394	273,000	
FH	118,750	76,419	118,750	91,668	110,000	87,036	100,000	107,760	100,000	
R & R	2,055,322	2,037,805	2,082,909	2,057,950	2,088,390	2,344,912	2,640,556	2,846,357	2,640,556	
GRANTS	-	2,510	2,107,359	1,449,369	1,800,000	3,963,044	-	50,876	-	
OTHER	524,552	2,595,398	587,552	505,557	490,050	539,364	495,020	623,999	495,020	
TOTAL:	13,981,694	15,670,752	16,525,091	14,790,311	15,629,040	18,044,223	15,667,881	16,150,533	15,667,881	-

SCHEDULE OF CUSTOMERS

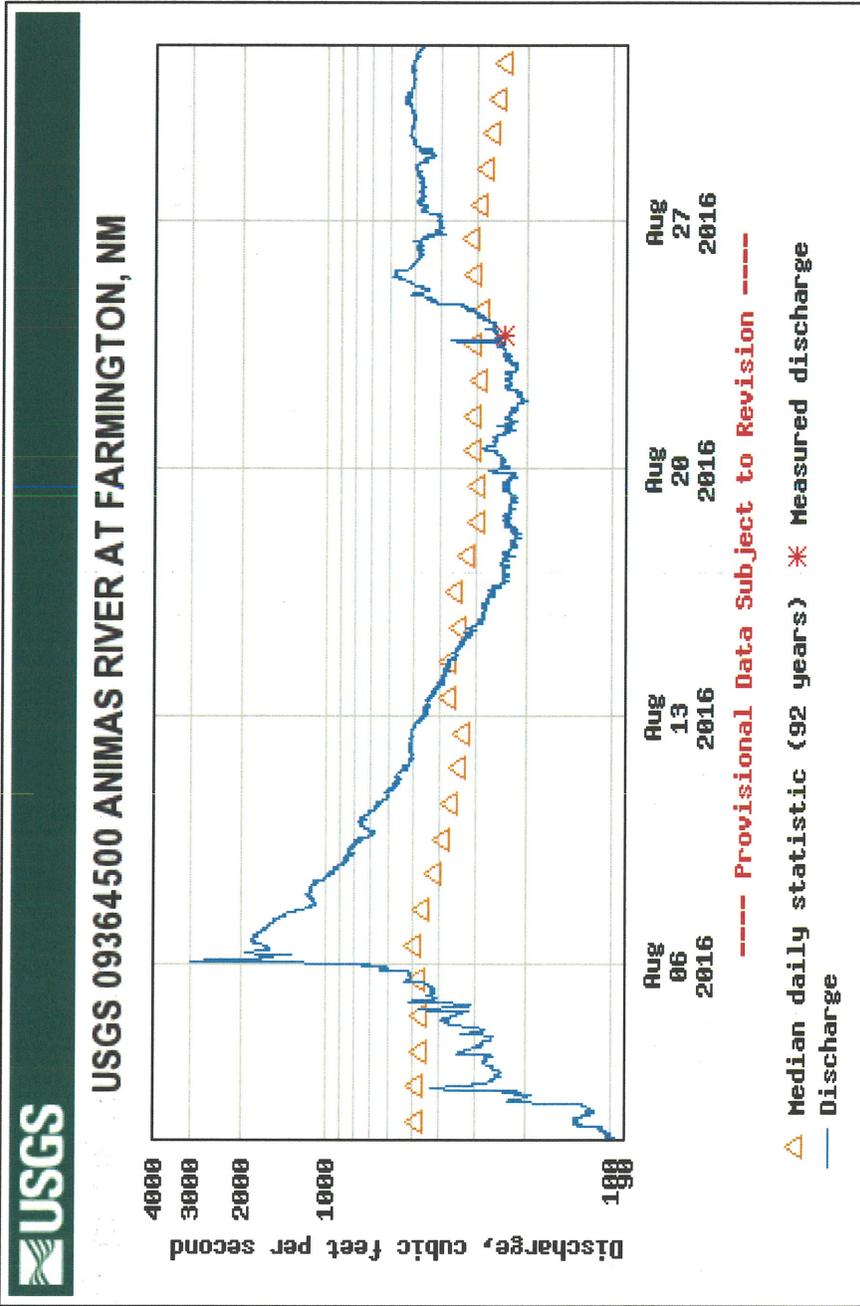
R	=	Residential
GS	=	General Service, Single (commercial)
CU	=	Contract Users (bulk water users)
REC	=	Recreational/Raw Water/Water Users (city facilities and
FH	=	Fire Hydrants
R & R	=	Renewal & Replacement
OTHER	=	Miscellaneous

Public Utility Commission City of Farmington's Water and Wastewater Utilities

Monthly Report

Sept. 14, 2016

Animas River



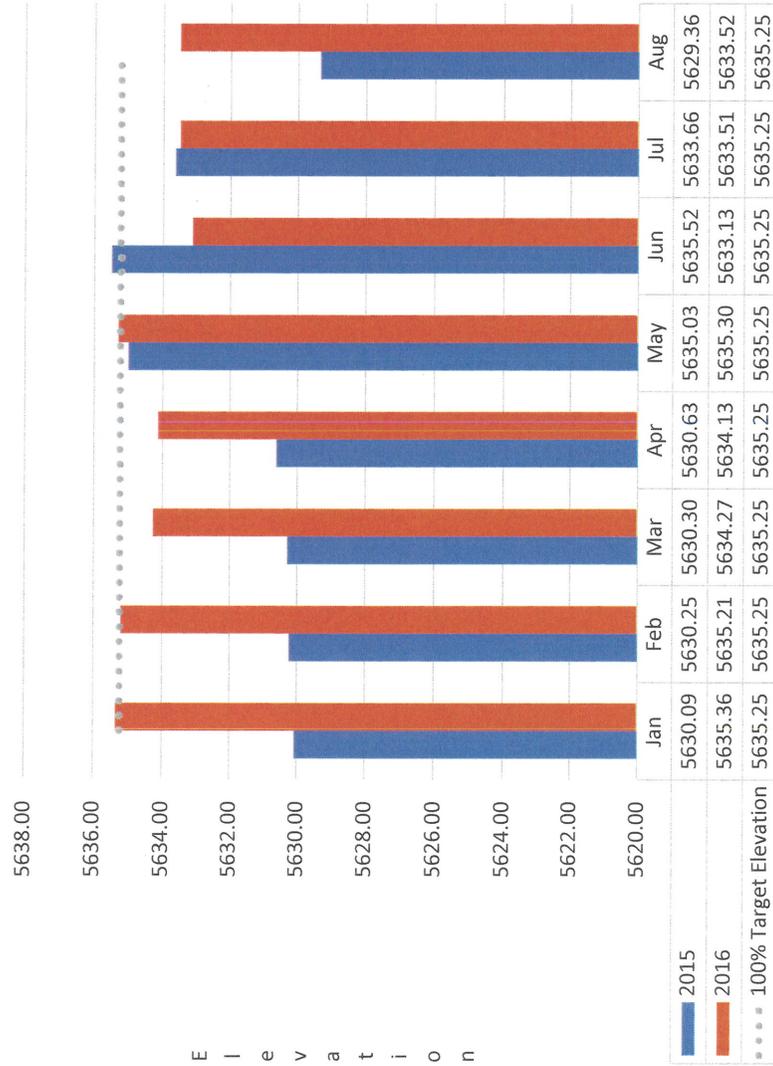
Summary:

Trends were high then average due to rainy conditions in the watershed

Aug. flows peaked on Aug 6 3000 CFS

Farmington Lake

Farmington Lake Elevations - 2015 and 2016
Monthly Average Elevation



Summary:

Top of the spill way is 5636.4

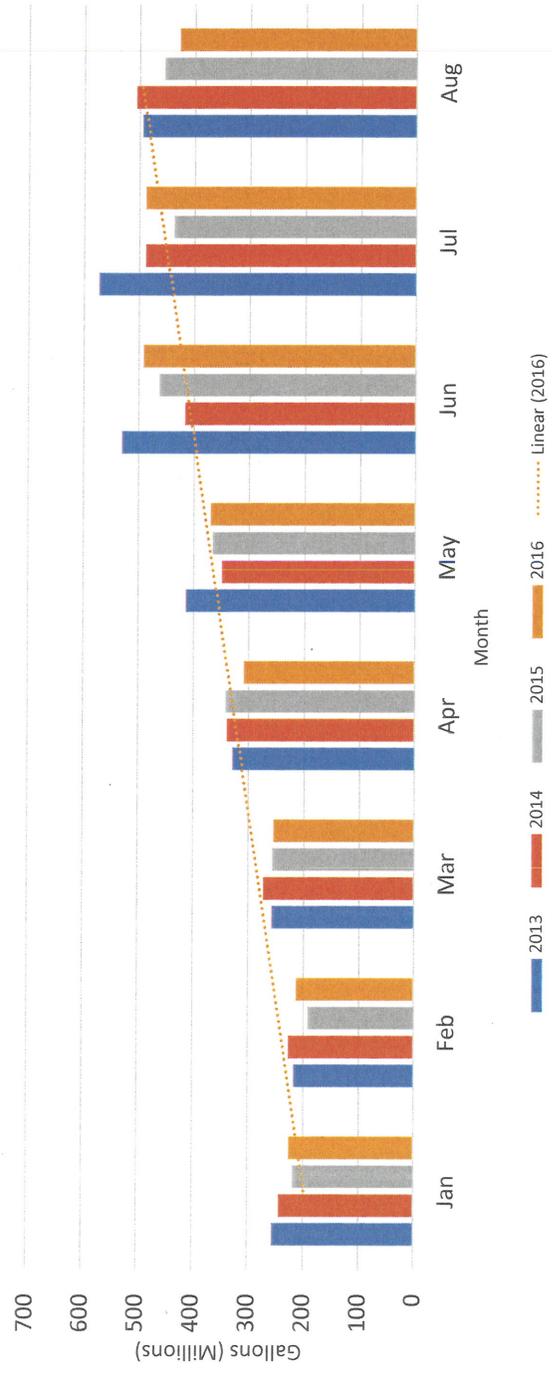
Max target is 5635.25

We are steadily increase lake level throughout Aug.

Current level is 98%

Water Production

**Total Effluent - WTP No.1 & No.2
January - August
2013 - 2016**



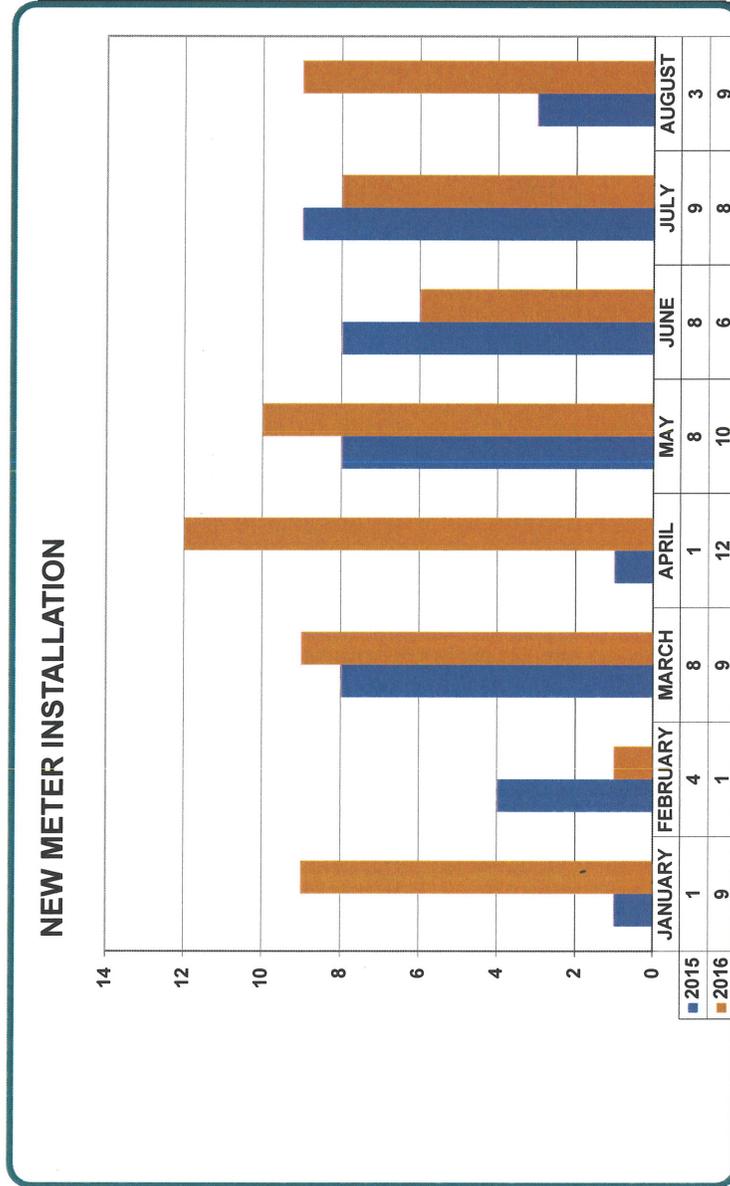
Summary:

Production trend saw a slight dropped.

Production in Aug. slightly lower then previous years do to wet August

Maintenance

New Meter Installations



#/mo.

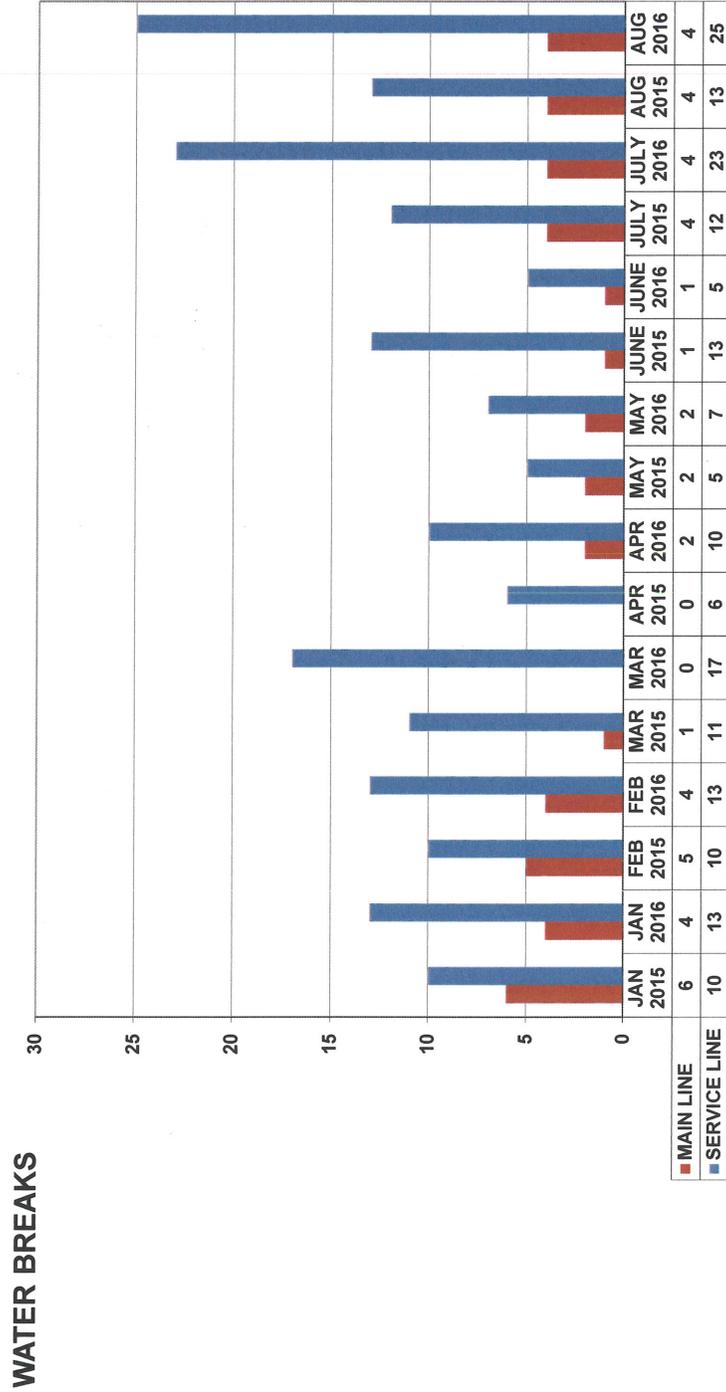
Summary:

42 meters installed in 2015 compared to 64 installed in 2016 during the same time 8 month period.

Average of 8/mo.

Trend level for the year.

Maintenance Water Line Repairs

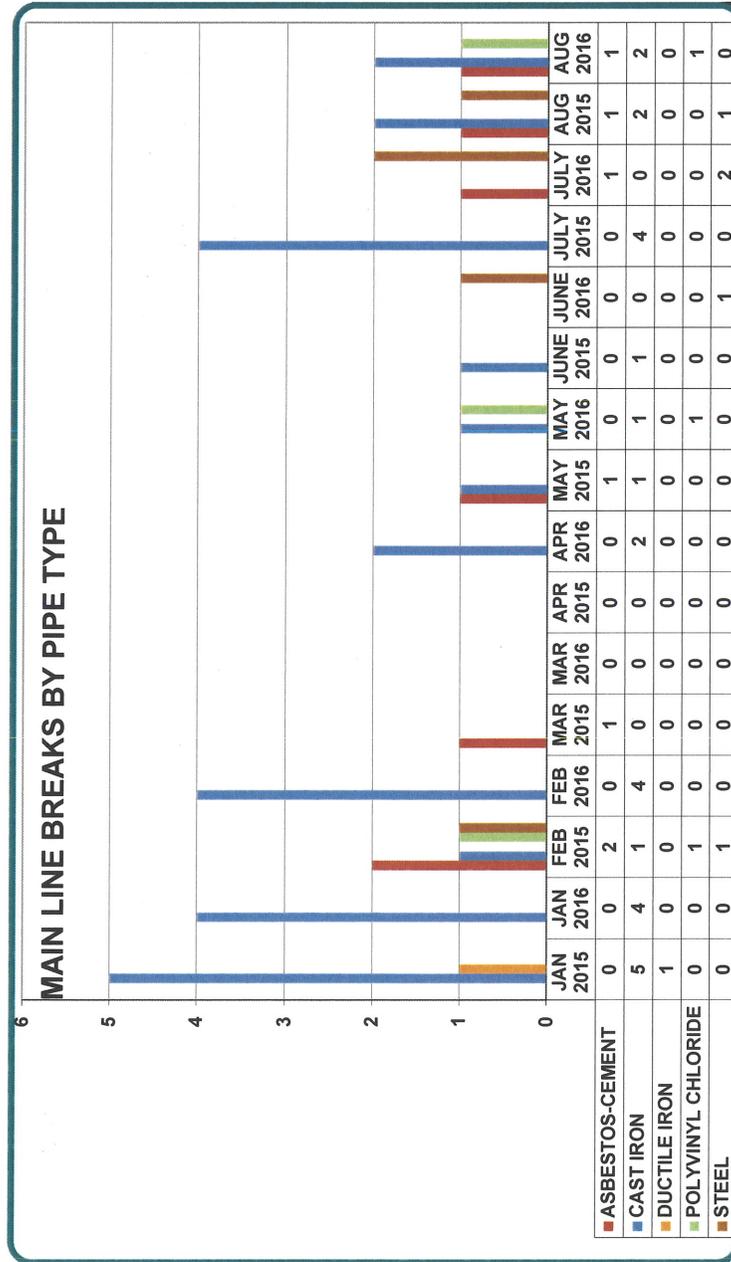


Summary:

Chart indicates that there are 81% more service line breaks than main lines

Service lines trending up for 2016.

Maintenance Water Line Repairs

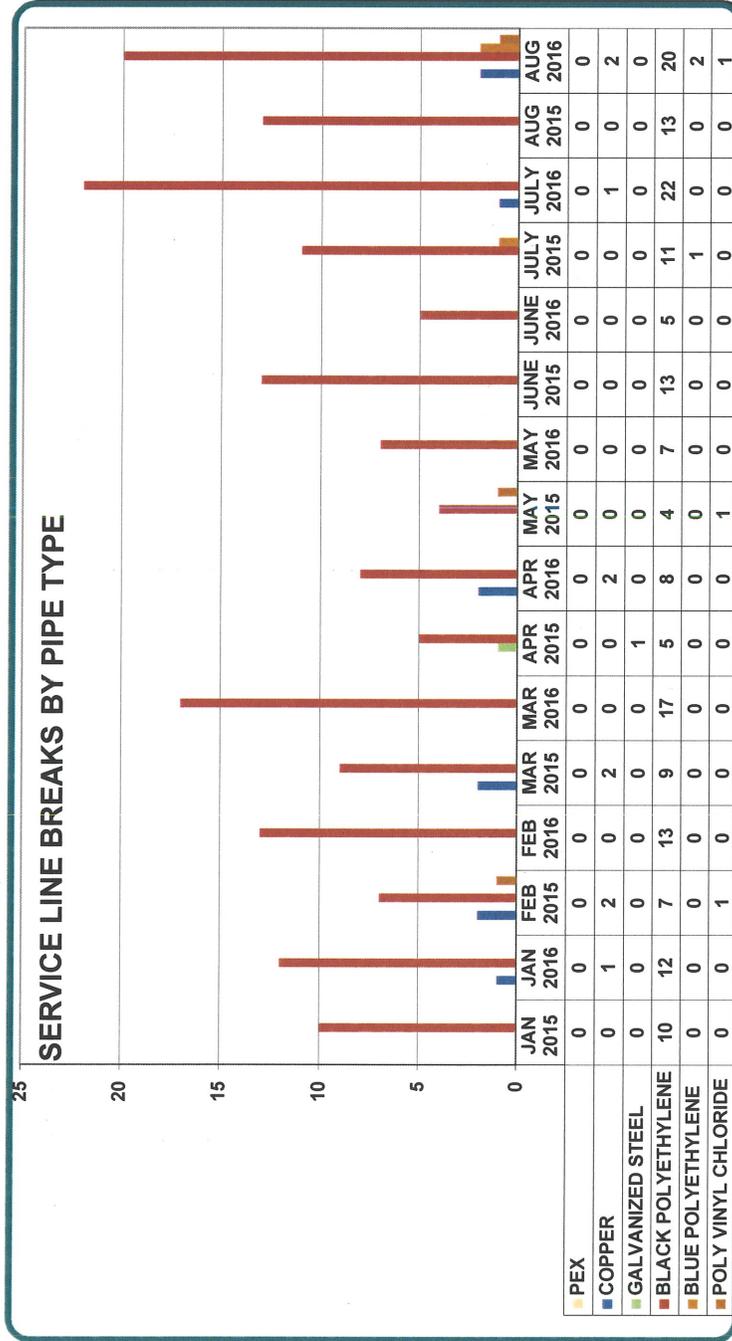


Summary:

Data indicates majority of main line breaks occur in winter months.

Cast Iron has the highest failure rate do to age

Maintenance Water Line Repairs



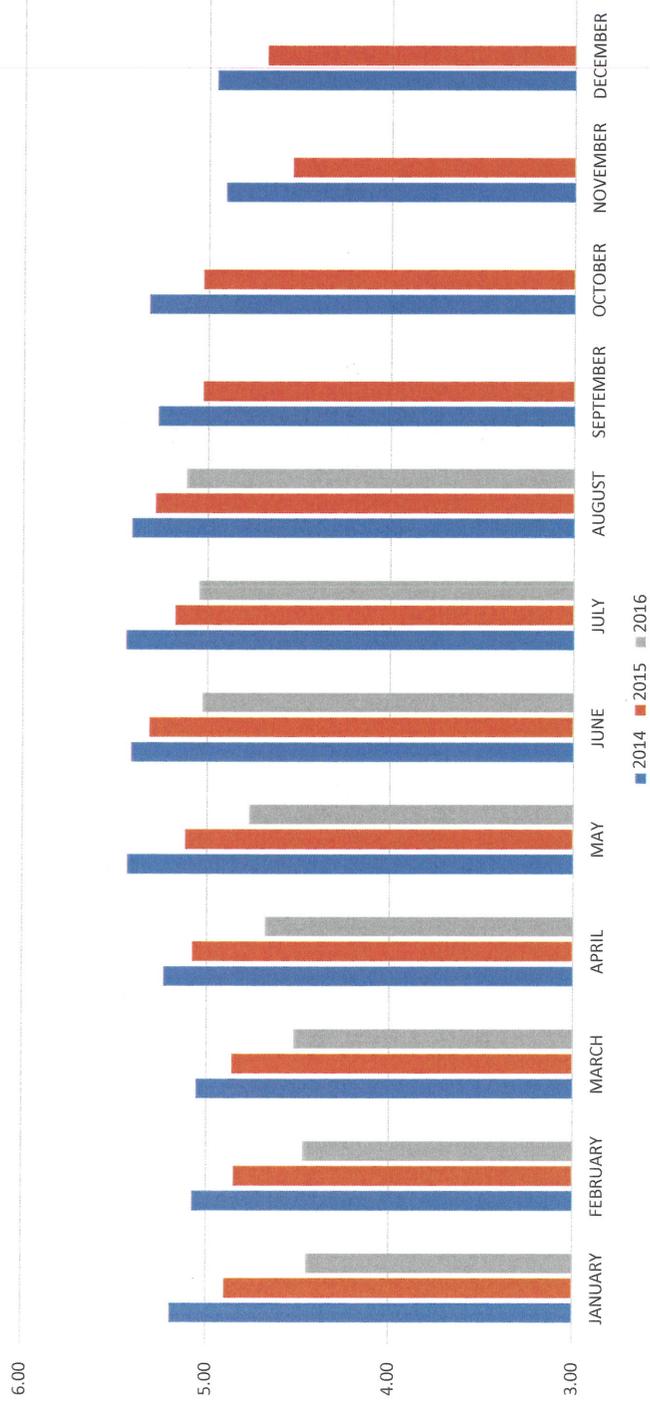
Summary:

Black Poly line has the highest rate of failure do to short product life expectancy and is no longer used in the industry

Total breaks YTD =113 compared to 80 the same time period in 2015.

Wastewater Treatment

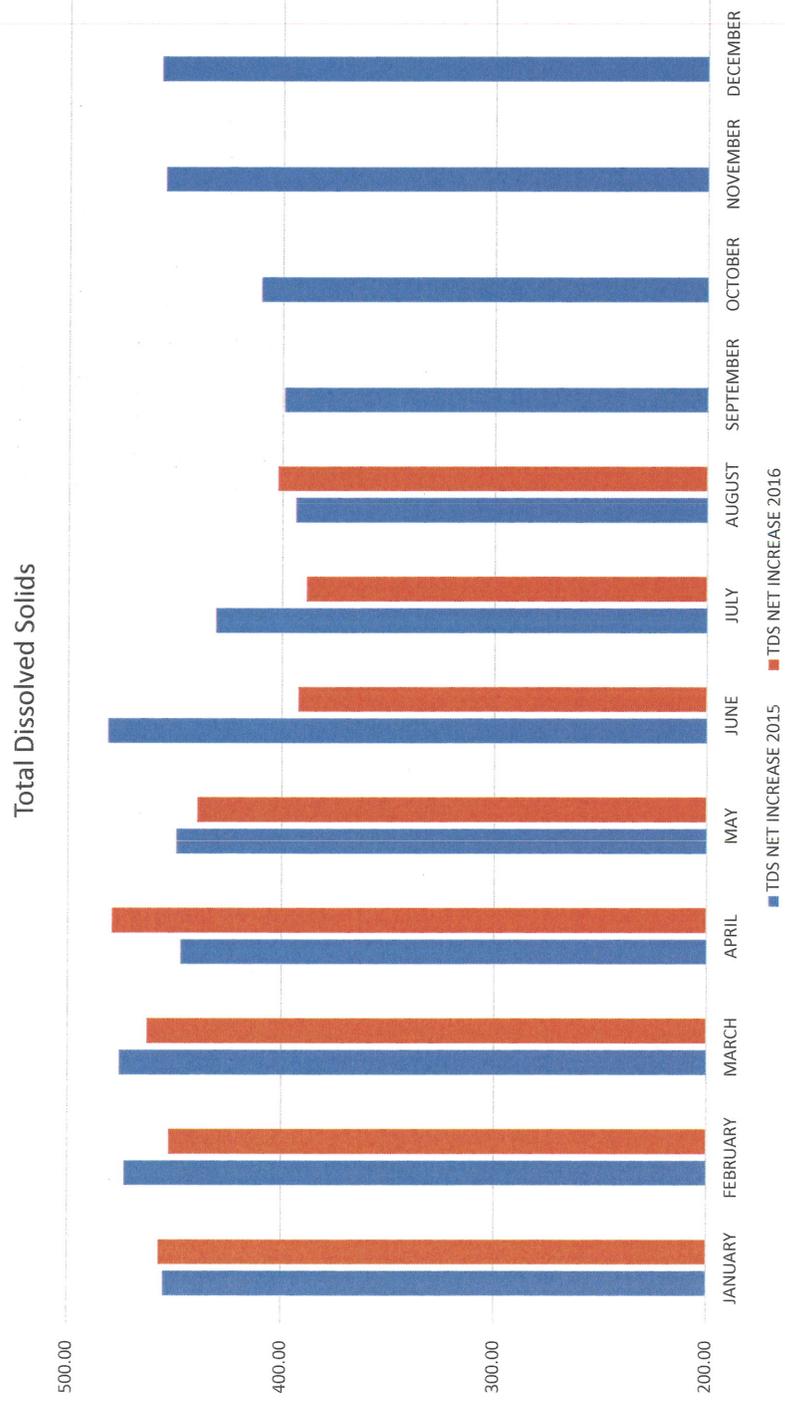
Influent Flows / Wastewater



Summary:

Flows have dropped over that last 3 years however up for August do to highest total monthly rainfall for 2016 at 0.89 inches. This indicate some inflow and infiltration.

Total Dissolved Solids



Summary:

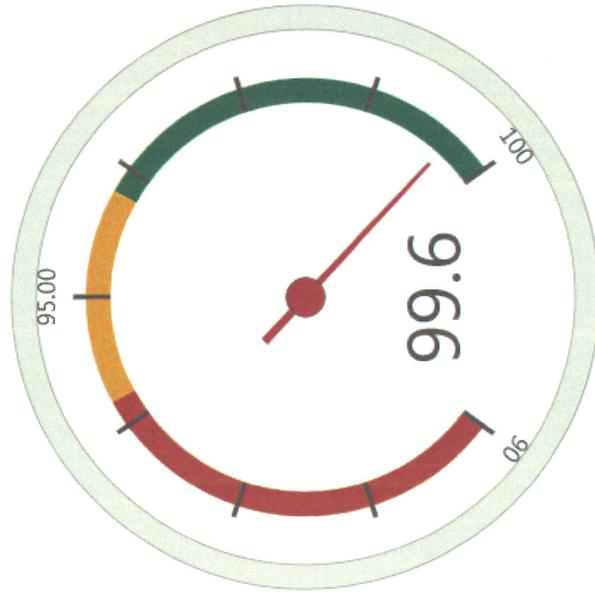
The Permit Limit is 400 MG/L

Comparison of 2015 to 2016 shows slight decrease

Date shows trend consistent seasonal variance

EPA has issued draft permit with new limit of 497mg/l

Lab Quality Control Statistics



August 2016 QC Dashboard
255 Data Points

2016 Trending

