



Together, Investing in Municipal Excellence

RURAL WATER ADVISORY BOARD MEETING AGENDA

JANUARY 18, 2024

723 S Lewis Street
 Room 1122B
 Stillwater, OK 74074
 12:00 PM

1. Call Meeting to Order

2. General Orders

The Advisory Board may hear a staff presentation, discuss, and take action including a vote or series of votes on each item listed as presented or as amended or revised by the Advisory Board, unless the agenda entry specifically states that no action will be taken. The requested action is indicated in each agenda entry but may be amended or revised prior to action by the Advisory Board.

a.	Consider approval of October 26, 2023, meeting minutes	Robert Sitton
b.	Staff Report on the following: <ol style="list-style-type: none"> 1. Items, including leaks and repairs, affecting Rural Water Corp #3 customers (No action will be taken on this item) 2. Update on Rural Water Corp #3 Agreement, Exhibit C Phase I and Phase II Projects (No action will be taken on this item) 3. Update on current water utility projects affecting Rural Water Corp #3 (no action will be taken on this item) 	David Barth
c.	Discussion on Rural Water Advisory Board semi-annual report (No action will be taken on this item)	Robert Sitton

d.	Discussion and recommendations on matters pertaining to the operation and maintenance of Rural Water Corp #3 to the SUA (No action will be taken on this item).	Robert Sitton
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3. Public Comment/ Input on Rural Water Corp #3

No action will be taken by the Board on items presented by the public at this meeting.

4. Reports from Officers and Boards

Announcements and remarks of general interest may be made by board members, staff, or City Attorney. Items of business that may require discussion or action including a vote or series of votes are listed below.

a. Discussion and possible action on future meetings

1. Next Meeting April 18, 2024.

5. Adjourn

On _____ at _____, a true and correct copy of this agenda was posted on the kiosk outside City Hall, 723 S. Lewis Street, Stillwater, OK.

The City of Stillwater encourages participation from all citizens. If participation at any public meeting is not possible due to a disability, please notify the City Manager's office at least 48 hours prior to the meeting by calling 405.742.8209.

**STILLWATER RURAL WATER ADVISORY BOARD MEETING SUMMARY
October 26, 2023, Special Meeting**

The Stillwater Rural Water Advisory Board met for a special meeting on Thursday, October 26, 2023, at 12:00 pm in Room 1122-B of the Stillwater Municipal Building at 723 S. Lewis Street.

Members present: Chairman Robert Sitton Jr., Vice-Chairman Stephen Mayo, Kent Bradley, Bryce Campbell, and Danny Wick.

Others present: Ashlyn Garis, Assistant City Attorney; David Barth, Division Manager, Water Utilities Engineering; James Driskel, Water Utilities Director; Angela David, Administrative Assistant - Engineering Dept., as recording secretary.

Others absent: Lowell Barto, counsel for Rural Water Corp. #3.

I. CALL MEETING TO ORDER

Mr. Sitton began the meeting at 12:00 pm.
Ashlyn Garis was introduced as the City’s Counsel for the Board.

II. GENERAL ORDERS

A. Consider approval of the July 20, 2023, meeting minutes.

Mr. Sitton asked if there were any changes and/or edits to the July 20, 2023, minutes; none were noted. Mr. Bradley motioned, Mr. Wick seconded to approve the meeting summary of July 20, 2023.

	Sitton	Mayo	Bradley	Campbell	Wick
Roll Call:	Yes	Yes	Yes	Yes	Yes

B. Consider approval of the 2024 Rural Water Advisory Board meeting schedule.

Mr. Sitton asked if there were any changes and/or edits to the 2024 Rural Water Advisory Board schedule; none were noted. Mr. Bradley motioned, Mr. Campbell seconded to approve the meeting schedule.

	Sitton	Mayo	Bradley	Campbell	Wick
Roll Call:	Yes	Yes	Yes	Yes	Yes

C. Staff Report on the following:

1. Items, including leaks and repairs, affecting Rural Water Corp #3 customers.

Mr. Barth gave a brief report to the board on The Yost Pump Station replacement project and the new tower and pipeline project. There was a brief discussion clarifying details of the project.

Mr. Driskel reported the number of line flushes, line locates, and repairs done in the last few months. Mr. Driskel and Mr. Barth answered questions from the Board concerning different repairs throughout the City.

2. Update on Rural Water Corp #3 Agreement, Exhibit C Phase I and Phase II Projects

Mr. Sitton requested that he and Mr. Barth meet before the next RWAB meeting to update the Exhibit C Phase I and Phase II Projects list.

3. Update on current water utility projects affecting Rural Water Corp #3.

Mr. Campbell reported that the recent changes made by the City have increased the water pressure at his parent's home to 25 PSI.

D. Discussion on the Rural Water Advisory Board semi-annual report.

Mr. Sitton reported that he has not been able to present his report to the SUA because they have been busy with meetings on the rate increase. Mr. Sitton shared some of the details of his report.

Mr. Sitton asked the Board if there were any items they wanted added to the next report. Mr. Bradley asked that it be addressed that the original agreement between the City of Stillwater and RWC#3 states that RWC#3 members pay the same rates as the residents of Stillwater and that receiving water service from the City of Stillwater is not a condition for annexation.

E. Discussion and recommendations on matters pertaining to the operation and maintenance of Rural Water Corp #3 to the SUA.

There were no comments.

III. Public Comment/Input on Rural Water Corp #3

There was no public comment or input.

Mr. Barth asked if the RWAB meetings are open to the public. There was a brief discussion on the topic. Ashlyn Garris confirmed that the RWAB is subject to the Open Meetings Act. Mr. Sitton asked about training and Ms. Garris said that Open Meetings Act Training is available for the Board and that she will discuss the matter with the City Attorney.

IV. Reports from the Board Members and Staff

Announcements and remarks of general interest may be made by Board members or staff.

A. Discussion and possible action on future meetings

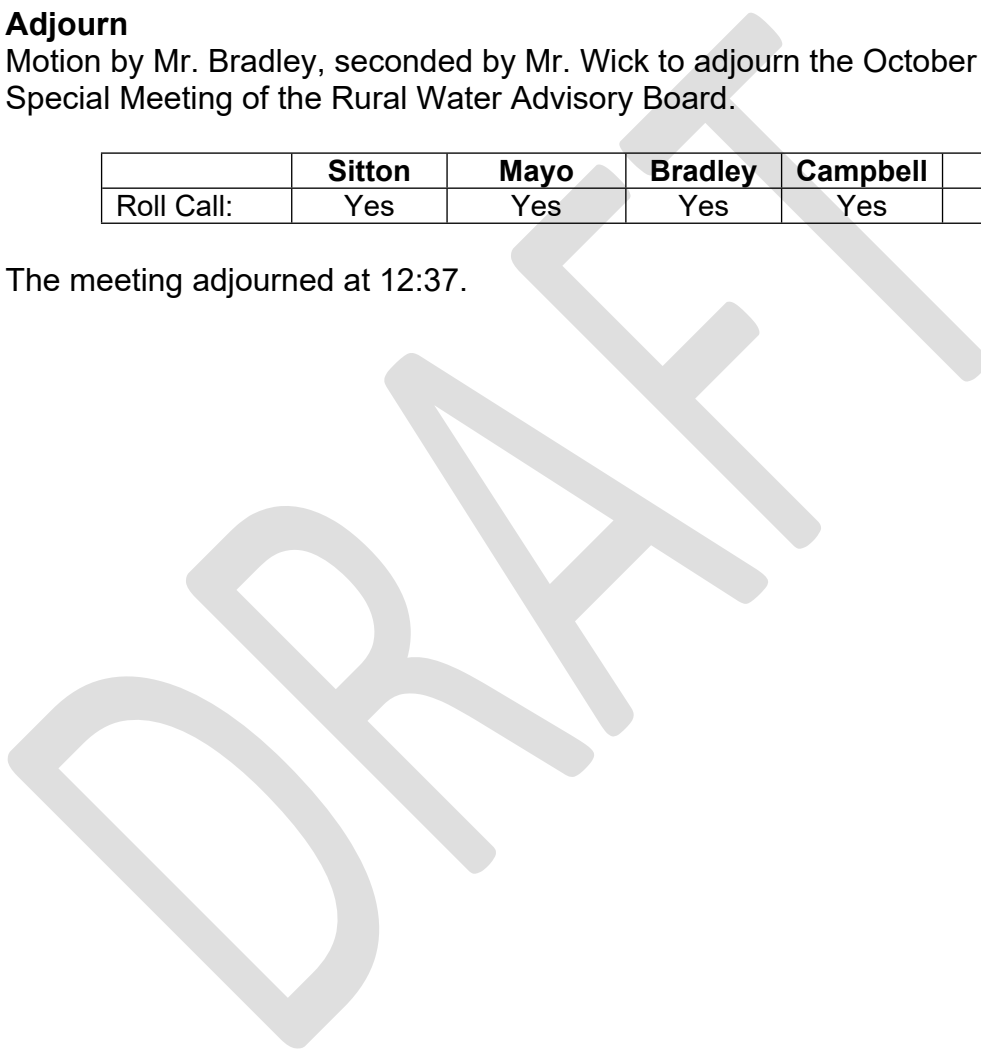
1. Next meeting January 18, 2024.
There was no discussion.

V. Adjourn

Motion by Mr. Bradley, seconded by Mr. Wick to adjourn the October 26, 2023, Special Meeting of the Rural Water Advisory Board.

	Sitton	Mayo	Bradley	Campbell	Wick
Roll Call:	Yes	Yes	Yes	Yes	Yes

The meeting adjourned at 12:37.



RWC#3 2023 Fourth Quarter

	October	November	December
Water Main Breaks	1	1	2
Service Line Leaks	3	0	0
Mains Flushed	86	76	61
Meters Set	0	2	1
Gallons Lost	336,400	2,500	0
Gallons Flushed	1,324,420	1,130,085	497,820
Line Locates	340	210	190

Roy Haden

From: Brad Stewart
Sent: Thursday, January 11, 2024 11:35 AM
To: Roy Haden
Cc: David Barth
Subject: RE: Rural Water Corp 3 Data Request
Attachments: RWC3 New Meter Sets 20240111_JUL23 thru DEC23.xlsx

- 1) I don't have access to Gallons Distributed, just billed.
- 2) RWC3 Total Monthly Consumption Billed in gallons for 2023:

JUL	13,215,100
AUG	18,328,700
SEP	16,715,500
OCT	15,462,400
NOV	10,893,400
DEC	9,114,300
- 3) RWC3 Active Customers: 1,557
- 4) 69 customer service "turn ons" (not necessarily new meters or new locations, just new customer account turn ons)
- 5) 7 (see attached spreadsheet 'Requested' tab)
- 6) 3 (see attached spreadsheet 'Completed' tab)

Brad Stewart
Information Technology Director

From: Roy Haden
Sent: Thursday, January 11, 2024 10:15 AM
To: Brad Stewart <brad.stewart@stillwaterok.gov>
Cc: David Barth <david.barth@stillwater.org>
Subject: Rural Water Corp 3 Data Request

Good Morning Brad,
Could you send over the following data for Corp #3 from July 2023 to December 2023 when you have a chance?

1. Total Gallons Distributed to C3.
2. Total Gallons Billed to C3.
3. Number of Active Customers in C3.
4. Number of New Customers in C3.
5. Meter Requests in C3.

6. Meters Installed in C3.

Thank you for your help!

Roy Haden
Engineering Technician



Engineering Department
O: (405) 742-8320
E: roy.haden@stillwater.org

RWC3 New Meters
July through December 2023

ABABCD	Request Date	Completion Date	Address		
RWC3	10/04/2023	01/09/2024	2825 N	SANGRE	RD
RWC3	10/04/2023	12/18/2023	4604 N	SANGRE	RD
RWC3	10/09/2023	12/18/2023	4622 N	SANGRE	RD
RWC3	10/24/2023		4814 N	SANGRE	RD
RWC3	11/27/2023		2461 S	COTTONWOOD	RD
RWC3	11/29/2023		4716 W	TERRITORY	LN
RWC3	11/29/2023	01/09/2024	1915 N	BRADLEY	PL
RWC3	08/02/2021	08/04/2023	2611 S	COYLE	RD

"City Book" Bulk Meter Readings
January to December 2023

		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Total	
Municipal to RS-C3 Meters	200495531 WTP-S	Reading 396,247	475,436	535,481	617,330	690,516	771,152	843,303	925,465	22,225	107,081	183,280	252,744		
		Usage 87,235	79,189	60,045	81,849	73,186	80,636	72,151	82,162	65,618	84,856	76,199	69,464	912,590	
	11000645 WTP-N	Reading 2,612,440	2,612,440	2,612,440	2,612,440	2,612,440	2,612,440	2,612,440	2,612,440	2,612,440	2,612,440	2,612,440	2,612,440		
		Usage 0	0	0	0	0	0	0	0	0	0	0	0	0	
	17 Lakeview /# 62903209	Reading 551,970	538,960	529,180	523,760	517,720	511,540	505,210	503,370	500,410	495,140	483,830	473,000		
		Usage -9,270	-13,010	-9,780	-5,420	-6,040	-6,180	-6,330	-1,840	-2,960	-5,270	-11,310	-10,830	-88,240	
	6th & Sangre St. Francis WL Meter	Reading 1,722	-36	1,736	-36	1,748	-36	1,775	-36	1,800	-36	1,828	-36	1,848	-37
		Usage 16	14	12	27	25	28	19	30	30	25	15	11	252	
	Range-W	Reading 2,402,712	-172	2,432,030	-172	2,458,659	-173	2,502,605	-175	2,536,230	-1	2,581,491	-1	2,620,620	-1
		Usage 30,835	29,318	26,628	43,944	33,799	45,261	39,129	50,989	47,901	45,026	36,401	28,429	457,660	
	Range-N	Reading 1,313	-209	1,317	-212	1,320	-214	1,361	-217	1,365	-2	1,370	-2	1,375	-2
		Usage 1	1	1	38	219	5	5	4	4	3	4	4	289	
	47621597 5th & CC Road	Reading 1,783,302	1,790,549	1,797,958	1,806,426	1,806,426	1,806,426	1,806,426	1,806,426	1,806,426	1,806,426	1,806,426	1,806,426	1,806,426	
		Usage 10,672	7,247	7,409	8,468	0	0	0	0	0	0	0	0	33,796	
10000388 2" meter at 44th and Western	Reading 225,394	225,394	225,394	225,394	225,394	225,394	225,394	225,394	225,394	225,394	225,394	225,394			
	Usage 0	0	0	0	0	0	0	0	0	0	0	0	0		
Municipal to RS-D1 Meter	31923647 WTP-E	Reading 5,286,090	5,286,090	5,286,090	5,286,090	5,286,090	5,286,090	5,286,090	5,286,090	5,286,090	5,286,090	5,286,090	5,286,090		
	Usage 0	0	0	0	0	0	0	0	0	0	0	0	0		
RS-C3 to RS-D1 Meter	70045782 4" meter between Corp 3 and D1	Reading 1,659,100	1,662,640	1,671,430	1,682,510	1,695,220	1,706,960	1,717,500	1,729,440	1,738,640	1,744,340	1,750,900	1,756,830		
	Usage 20,950	3,540	8,790	11,080	12,710	11,740	10,540	11,940	9,200	5,700	6,560	5,930	118,680		
	Reading 2,260,170	2,444,356	2,569,829	2,694,503	2,746,943	2,836,347	2,917,432	3,118,413	3,175,408	3,285,369	3,350,669	3,416,881			
	Usage 105,605	184,186	125,473	124,674	52,440	89,404	81,085	200,981	56,995	109,961	65,300	66,212			
51648761 6" meter on Sangre, north of 32nd	Reading -33,561	-35,852	-37,541	-39,743	-41,919	-43,410	-45,483	-47,777	-50,099	-52,697	-55,779	-57,387			
	Usage -2,210	-2,291	-1,689	-2,202	-2,176	-1,491	-2,073	-2,294	-2,322	-2,598	-3,082	-1,608			
51648757 4" meter on 19th, west of Mesa Circle	Reading 41,614	41,614	41,614	41,614	41,614	41,614	41,614	41,614	41,614	41,614	41,614	41,614			
	Usage 0	0	0	0	0	0	0	0	0	0	0	0			
51648758 4" meter at SW corner of 19th and Range	Reading 3,125,488	4,401,616	5,455,983	7,566,002	9,365,819	11,608,082	13,265,649	15,726,359	18,351,554	20,378,351	22,048,720	23,446,623			
	Usage 137,103	1,276,128	1,054,367	2,110,019	1,799,817	2,242,263	1,657,567	2,460,710	2,625,195	2,026,797	1,670,369	1,397,903			

Unaccounted For Water - Rural System C3

Month	Bulk Metered (Negative numbers mean water is leaving system)											Metered Consumption			Unmetered Consumption				Total Consumption	Unaccounted For Water			
	WTP N of 2 (from Municipal)	WTP S of 2 (from Municipal)	Lakeview, E of Sangre (from Municipal)	19th, W of Mesa Circle (from Municipal)	19th at SW Corner of 19th and Range (from Municipal)	320 S Country Club (from Municipal)	6th and Sangre (from Municipal)	6th and Range North (from Municipal)	6th and Range West (from Municipal)	N Western (to RSA-D1)	2 nd 44th and Western ^ (from Municipal)	Total Bulk Metered \$	Retail Meters	Unbilled Meters (Lake McMurtry)	Total Metered Consumption	Leaks	Distribution Flushing	Capital Projects	Total Unmetered Consumption			Month	
	#11000646 unit 10%2020 #220495531 (gallons)	#11000645 (gallons)	#17 (gallons)	#12747275 (gallons)	#12747274 (gallons)	#47521597 (gallons)	(gallons)	(gallons)	(gallons)	#70045782 (gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(%)
January, 2023	8,723,500	0	-927,000	0	10,560,500	1,067,200	1,600	100	3,083,500	-2,095,000	0	20,414,400	10,298,900	220,200	10,519,100	6,330	1,691,520	0	1,697,850	12,216,950	8,197,450	40%	
February	7,918,900	0	-1,301,000	0	18,418,600	724,700	1,400	100	2,931,800	-354,000	0	28,340,500	7,461,300	28,200	7,489,500	3,000	1,204,320	0	1,207,320	8,696,820	19,643,680	69%	
March	6,004,500	0	-978,000	0	12,547,300	740,900	1,200	100	2,662,800	-879,000	0	20,099,800	7,373,700	32,900	7,406,600	30	376,160	0	376,190	7,782,790	12,317,010	61%	
April	8,184,900	0	-542,000	0	12,467,400	846,800	2,700	3,800	4,394,400	-1,108,000	0	24,250,000	10,545,500	37,300	10,582,800	0	64,880	0	64,880	10,647,680	13,602,320	56%	
May	7,318,600	0	-604,000	0	5,244,000	0	2,500	21,900	3,379,900	-1,271,000	0	14,091,900	12,031,600	32,900	12,064,500	0	1,650,545	0	1,650,545	13,715,045	376,855	3%	
June	8,063,600	0	-618,000	0	8,940,400	0	2,800	500	4,526,100	-1,174,000	0	19,741,400	15,102,900	60,800	15,163,700	500	456,355	0	456,855	15,620,555	4,120,845	21%	
July	7,215,100	0	-633,000	0	8,108,500	0	1,900	500	3,912,900	-1,054,000	0	17,551,900	13,215,100	54,000	13,269,100	244,820	1,023,380	0	1,268,200	14,537,300	3,014,600	17%	
August	8,216,200	0	-184,000	0	20,098,100	0	3,000	400	5,098,900	-1,194,000	0	32,038,600	18,328,700	65,600	18,394,300	890,000	1,673,880	0	2,563,880	20,958,180	11,080,420	35%	
September	6,561,800	0	-296,000	0	5,699,500	0	3,000	400	4,790,100	-920,000	0	15,838,800	16,715,500	55,300	16,770,800	50,000	981,600	0	1,031,600	17,802,400	-1,963,600	-12%	
October	8,485,600	0	-527,000	0	10,996,100	0	2,500	300	4,502,600	-570,000	0	22,890,100	15,462,400	52,000	15,514,400	336,400	1,324,420	0	1,660,820	17,175,220	5,714,880	25%	
November	7,619,900	0	-1,131,000	0	6,530,000	0	1,500	400	3,640,100	-656,000	0	16,004,900	10,893,400	47,300	10,940,700	2,500	1,130,085	0	1,132,585	12,073,285	3,931,615	25%	
December	6,946,400	0	-1,083,000	0	6,621,200	0	1,100	400	2,842,900	-593,000	0	14,736,000	9,114,300	34,300	9,148,600	0	497,820	0	497,820	9,646,420	5,089,580	35%	
DATA SOURCE	City Book	City Book	City Book	City Book	City Book	City Book	City Book	City Book	City Book	City Book	City Book	City Book	City Book	City Book	City Book	City Book	City Book	City Book	City Book	City Book	City Book	City Book	City Book
DESCRIPTION	2 meters in the same vault, south end of WTP		Lakeview just west of City Limits	Previously: 2 meters in same vault, south of Range EST near 19th and Range Road. Replaced by new meters at 19th and Range and at 19th, west of Hidden Oaks Drive		Mag Meter at 5th and CC Road	Mag Meter at NW Corner of 6th and Sangre	Mag Meter at NW corner of 6th and Range	Mag Meter at SW corner of 6th and Range	North Western Road Normal flow direction is from C3 to D1.	NW corner of 44th and Western	Sum of all Bulk Meters	Summary of HTE Data Based On WUE List of UIDs by System	7923 W McMurtry plus 16301 from City Book	Individual Meters plus Hidden Oaks plus Unbilled Meters	Water Monthly Report from Water Utilities	Water Monthly Report from Water Utilities	WUE Inspector	Sum of All Unmetered Consumption	Sum of all Consumption	Total Bulk Metered minus Total Unmetered	Unaccounted for Water divided by Total Bulk Metered times 100	

Attachment #1
Status of Projects Affecting Former RWC#3
(Amended Exhibit C and Other Projects)

Phase 1 – Items to be completed July 1, 2011 thru June 30, 2013

#1 – Hilltop Booster Pump Station

Project Description: Replace all piping in the vault of the lift station. Install second pump and refurbish electrical controls. Shown as Item 3a in Proposed Water Utilities General Capital Projects.

Status: **Completed 2012**

#2 – Various Locations

Project Description: Install flush/fire hydrants at locations to be determined by field operations personnel. Shown as Item 3b in Proposed Water Utilities General Capital Projects.

Status: **Completed 2013**

#3 – Country Club between 37th and 44th (map #01-31)

Project Description: Install 650 feet of 4" line. Shown as Item 3c in Proposed Water Utilities General Capital Projects.

Status: **Completed.** Phase 1 was completed in fall of 2016. Phase 2 was completed in winter of 2018.

#4 – Vicinity of 19th – Location TBD

Project Description: Install chlorine injection facility to boost chlorine residual in the system.

Status: **The Water Quality Study is nearly complete. Staff has started making some operational changes to improve water quality and chlorine residual.**

#5 – OSU Plant

Project Description: Remove meter, abandon 3,000 feet of 10" line.

Status: **Completed 2009**

#6 – 44th and Country Club

Project Description: Install three cross-connections between parallel 4" pipes on 44th.

Status: **Completed 2011**

#11 – Hidden Oaks

Project Description: Install Booster Pump Station – 2 pumps, 3hp- at intersection of Hidden Oaks and 19th (annexed into the City Limits).

Updated: December 18, 2023

Status: Completed temporary pump station located on Range Road serving Hidden Oaks and Boulder Creek. Water2040 improvements replaced this pump station and it has been demolished. **Completed 2020**

#13 – Nottingham Tower and Pump Station

Project Description: Add 20 feet to standpipe and build new pump station at Cottonwood and 19th, 2 pumps – 200 GPM at 100ft of head (approx. 10hp).

Status: **Completed 2019.** The 44th Tower and Range BPS replaced Nottingham Tower and Pump Station. Nottingham Tower and pump station have been demolished.

#14 – Karsten Area

Project Description: Extend waterline to Fire Academy to improve water quality – Install 400 feet of 6” line. Shown as Item 3f in Proposed Water Utilities General Capital Projects.

Status: The City will look at the system requirements in this area in its water quality study, currently in progress. **This project may be redundant with #9 on Phase 3. Need to evaluate.**

#17 – Bilyeu Tower

Project Description: Take out of service and remove. Relocate to property on Vista Drive. Install 650 feet of 6” line to connect to system and altitude valve.

Status: Bilyeu Tower has been taken out of service, and will be **demolished at some point in the future. Water pressure on Vista Drive was addressed with Water 2040 projects.**

#18 – Range Road Pump Station

Project Description: Demolish

Status: **Completed 2009**

#24 – School, Nottingham, Twin (2), Tan-Tar-A, Coyle Towers

Project Description: Remove altitude valves or install bypass so that tank floats on system.

Status: **Completed 2012**

#25 – Redlands Rd between SH51 and Lakeview

Project Description: Cap off 2.5” near Redland/Airport, connect 2.5” going north to T of 4”/3”, move 5 individual services to 4”, move connects for 2.5” pipes on W 2nd and W Virginia to the 4” line. Shown as Item 3b in Proposed Water Utilities General Capital Projects.

Status: **Completed 2012**

Phase 2 – Items to be completed July 1, 2011 thru June 30, 2015

#7 – Lakeview between Redlands and Cottonwood

Project Description: Install ½ mile of 4" line on Lakeview to complete the loop.
Status: Delayed due to addition of higher priority projects (ODOT projects and Yost Pump Station and Yost Tower).

#12 – Yost Booster Pump Station and School Tower

Project Description: Relocate and rebuild the pump station. It continues to flood during heavy rains. Add 20 feet to School Tower standpipe.
Status: Projects currently in design phase. Pump station will be constructed at WTP and a new elevated storage tank will replace School and Reisbeck Towers. **Electric Service to existing Yost BPS was upsized in Fall 2023. Pumps within existing Yost BPS will be replaced in Q1 of 2024. Construction of the new finished water pump station at the WTP is beginning in January of 2024 and will be complete in 2 years. The new FWPS contains a new battery of higher pressure, higher flow pumps for the Yost Service Area. The new transmission line from the WTP and a new elevated storage tower are in design.**

#27 – 19th between Range and Country Club

Project Description: Connect dead ends with 600 feet of 3" line, including a creek crossing and bore under the road, install a flush hydrant.
*Status: **Completed 2010.** Abandoned approximately 1 mile of small diameter water line and made connections between the rural and municipal systems to eliminate the dead end.*

#32 – Lakeview Rd between Country Club Rd and Range Rd

Project Description: Install about 5,300 feet of 6" line to connect 8" line at Country Club Rd and 6" line at Range Rd.
Status: Delayed due to additional projects (ODOT projects and Yost Pump Station and Yost Tower).

Phase 3 – Items to be completed July 1, 2011 thru June 30, 2017

#8 – Sangre ½ mile north of 44th

Project Description: Install master meter to City system and ½ mile of 6" pipe between meter and 44th.
Status: **Will evaluate if this is needed.** To be reconsidered with Water2040 Package C Projects.

#9 – Karsten Road south of SH51

Project Description: Install 130 feet of 6" pipe to loop 3".
Status: Delayed due to additional projects (ODOT projects and Yost Pump Station and Yost Tower).

#10 – Western between 56th and 44th

Project Description: Install 1,300 feet of 6” pipe to connect new tower at 56th to water line on Western.

Status: Completed as 18” water line in 2016.

#15 – 44th and Country Club – Boersma Pump Station

Project Description: Add VFDs, controller and telemetry to Boersma Pump Station.

Status: **Replaced the entire pump station in 2012.** Boersma Pump Station has been demolished.

#16 – White Tower

Project Description: Remove

Status: **Completed 2017**

#19 – OSU Pump Station

Project Description: Take out of service, install 7,600 feet of 4” pipe connected to OSU Farm with existing 2.5” pipe on 44th between Hackelman Rd and Karsten Creek Rd.

Status: Delayed due to additional projects (ODOT projects and Yost Pump Station and Yost Tower).

#20 – Booster Pump Stations

Project Description: Connect to WTP SCADA system to monitor

Status: SCADA was installed at Boersma and Yost Pump Stations in 2012. Boersma and Nottingham pump stations have been demolished because the new Range booster pump station and 44th Tower have replaced them. Karsten, Hilltop and OSU pump stations have been delayed due to additional projects (ODOT projects and Yost Pump Station and Yost Tower). A future SCADA Master Plan is currently on the City’s Capital project list and will address the SCADA needs for each site.

#21 – Eight Standpipes

Project Description: Install 8 foot security fence along perimeter of easement.

Status: Tan-Tar-A, Coyle, and Reisbeck are complete. School standpipe will be replaced with the Yost Tower Project. The Twin Towers have been replaced by the 44th Tower. Bilyeu standpipe will be demolished. White tower was demolished in 2017. Nottingham Tower was demolished in 2020. Completed.

#22 – Eight Standpipes

Project Description: Add diffusers/mixing systems.

Status: Mixing system installed at Tan-Tar-A Tower in 2017. Mixing system for Coyle Standpipe is pending results at Tan-Tar-A Tower. Reisbeck and Bilyeu standpipe will be demolished. Yost standpipe will be replaced with the Yost Tower project, which will be designed with separate in/out feeds for effective mixing. Twin Towers were demolished and replaced by the new 44th Tower, which was constructed with separate in/out feeds for effective mixing. Nottingham Tower was demolished in 2020.

#23 – Eight Standpipes

Project Description: Connect to WTP SCADA system to monitor

Status: Coyle and Tan-Tar-A SCADA are delayed due to additional projects (ODOT Projects and Yost Pump Station and Yost Tower). Reisbeck and Bilyeu Standpipe will be demolished. Yost standpipe will be replaced with the Yost Tower project, which will be connected to SCADA. Twin Towers were demolished and replaced by the new 44th Tower in 2019. The 44th Tower is connected to SCADA. Nottingham Tower was demolished in 2020.

#26 – Country Club Rd between 6th and McElroy

Project Description: *Install 3,500 feet of 6" line between end of City line on Country Club and RWC #3 line north of creek.*

Status: **Completed 2015**

#28 – Woodlake Subdivision

Project Description: *Install 350 feet of fusible PVC along the dam to cross the lake.*

Status: **Completed 2012**

#29 – Karsten Creek, Hilltop Pump Station

Project Description: Install VFDs, controls and telemetry: add equipment to communicate with SCADA system at WTP.

Status: Karsten Creek Pump Station delayed due to additional projects (ODOT projects and Yost Pump Station and Yost Tower).

#30 – Tan-Tar-A Subdivision

Project Description: Install 1200 feet of 4" pipe to complete a loop to the Tan-Tar-A Subdivision.

Status: Delayed due to additional projects (ODOT projects and Yost Pump Station and Yost Tower).

#31 – Range Rd, Lakeview to Airport

Project Description: Connect dead end – Install 2900 feet of 6" pipe.

Status: Delayed due to additional projects (ODOT projects and Yost Pump Station and Yost Tower).

Additional Projects

A – ODOT Project – Harrington Creek Crossing on S.H. 51 East Bound Lane

Project Description: The bridge was replaced by ODOT and the water lines had to be moved per design.

Status: **Completed 2012**

B – ODOT Project – Range and McElroy Bridge Replacement

Project Description: The bridge was replaced over Stillwater Creek and the intersection realigned by ODOT, which required the existing rural water lines to be replaced.

Status: **Completed 2013**

C – Water2040 Program

Project Description: Upgrade the existing water systems (pumping, piping and storage) to improve service to municipal and rural system customers and allow for future development.

Status: Central Zone and 44th Ave. Water Towers are complete and in service. Range Pump Station and Water Transmission Line to 44th Tower are complete and in service. Western Road from 44th Ave. to Sangre Road and 32nd Ave. Water line was completed in Fall 2018. 32nd Ave. Pump Station and Water Transmission Line from 6th to 32nd are complete.
Completed 2020

D – Water2040 Program - Highway 51 and Country Club Road Water Pump Station and Transmission Water Line to Range Tower

Project Description: New pump station needed to replace the existing below ground pump station at the corner of Country Club Road and HWY51.

Status: **Completed 2017**

E – ODOT Project – Phase 2 of the Modification of Country Club Road between McElroy and Lakeview

Project Description: Country Club Road was reconstructed by ODOT and the existing rural water main needed to be replaced.

Status: **Completed 2016**

F – Hydrant Flushing Schedule

Project Description: Monthly flushing schedule created and posted on City website for public view.

Status: **Completed 2016**

Report to Stillwater Utilities Authority
Jan. 15, 2024
Semi-Annual Report for 2023
(July - December)

Prepared by: Robert H. Sitton, Jr., Chairman
Stillwater Rural Water Advisory Board
Printed: Jan.14, 2024

Report #31

Purpose:

The purpose of the Stillwater Rural Water Advisory Board, as stated in the Ordinance of Establishment is to advise and make recommendations to the City Council on matters pertaining to operation and maintenance of rural water systems operated and/or maintained by the City of Stillwater thru the Stillwater Utility Authority.

Meeting Information:

Normal meeting time for Stillwater Rural Water Advisory Board (SRWAB) is on the third Thursday quarterly at 12:00 noon. Four times a year, generally in January, April, July and October. Our calendar is posted. The meetings are open and I invite any of you to come.

Membership:

Current Members of SRWAB are made up of the Payne County Rural Water Corp. #3 Board Members. This board reduces it's number of board members from 7 to 5 at the annual meeting, September 28, 2017. Below was our board thru 2022.

Robert H. Sitton, Jr. Chairman	5717 W. Deanita Ln. Stillwater, OK 74075 Home (405)377-9555 Cell (405)612-5777	Term expires 2025 E-Mail sittonjrrobert@aol.com
J. Bryce Campbell Vice-Chairman	3309 Timberlake Dr. Stillwater, OK 74075 Home (405)747-0002	Term expires 2024 E-Mail jbrycecampbell@gmail.com
Danny Wick	2918 N. Country Club Rd. Stillwater, OK 74075 Cell (405)747-7884	Term expires 2023 E-Mail dannywick@ymail.com
Kent Bradley	3025 S. Isabell Pointe Dr. Stillwater, OK 74074 Home (405)372-7590 Cell (405)612-7920	Term expires 2024 E-Mail kentbradley@bcdco.us

Stephen Mayo

5421 W. Airport Rd.
Stillwater, OK 74075
Cell (405)762-0952

Term expires 2025

E-Mail Stephen.M.Mayo@gmail.com

Report Sections:

1. **Health of the System**

The monthly data series being considered are:

- A. Total gallons of water distributed to PCRWC#3 area:
- B. Total gallons of water billed to PCRWC#3 customers:
- C. Water loss or unaccounted for in the PCRWC#3 area:
- D. Active customers and new customers in the PCRWC#3 area:
- E. Net increase/(decrease) in customers in the PCRWC#3 area:
- F. New meters requested and installed in the PCRWC#3 area:
- G. General Comments:

Data tables that show items A.-C. are on Attachment One, attached at the end of this report.

Data tables that show items D.-E. are on Attachment Two, attached at the end of this report.

Data tables that show item F. is on Attachment Three, attached at the end of this report.

All numbers are provided to me from various departments and supplied at the quarterly meeting, which are public. Please keep in mind that we started this data in 2007 and some in 2010. Trends may start to show as more years are compiled.

- G. General Comments:

We, as customers of the City of Stillwater, should be talking to our neighbors and friends that are on this rural system, to help the City of Stillwater acquire the necessary easements for all the above and below ground facilities. We should all want the City of Stillwater to have the ability to access all the facilities so they can maintain them and make any needed additions or corrections to the system.

2. **Activities related to the PCRWC#3 area.**

Improvements – Those items listed in Amended Exhibit C of the agreement between City of Stillwater and Payne County Rural Water Corporation #3, which was accepted September 16, 2010. This report follows as Attachment Four.

Studies -

- a. **Yost Road Booster Pump Station Improvement Project Report** was presented to SRWAB July 18, 2013 by Mary Elizabeth Mach from Garver Engineers. The city has not moved any further on this project, since they are short staffed.
- b. **Water 2040** Package B has been completed. Staff will continue to monitor the system with the knowledge of what Package C would do to the system and when it will be needed.

3. **Awareness Items to Stillwater Utility Authority.**

- a. **Yost Lake Pump Station**-The water department has done the studies and knows that there is a need to upgrade the Yost Lake Pump Station, that is on the Amended Exhibit C, #12. The water department has put a moratorium on the Yost Zone, which is North-west of Western and Lakeview. Since this project has not moved forward, there has not been any meters approved to install, since water volume and pressure is an issue.
- b. **Flushing dead End Lines.** The water department had a schedule to flush the water system's dead end lines. I know one that is not on that schedule of the schedule has been abandon.

4. **General comments to Stillwater Utility Authority.**

Comments from rural customers –We continue to get comments from customers in the rural water service area about their appreciation for the service they are receiving from the employees of the City of Stillwater.

5. **Recommendations to the Stillwater Utility Authority.**

- a. **Approve** the work to upgrade the Yost Lake Pump Station and get it in motion so the North-West property owners can get water meters.
- b. **Follow-up** with the water department to insure that the rural water lines are being flushed on the State recommended schedule.

Respectfully submitted,

s/Robert H. Sitton, Jr. Chairman

Draft

Attachment #1

Water Provided to PCRWC#3 Area

(Gallons)

	2011	2011	2011	2012	2012	2012	2012	2013	2,013	2013	2013
	Distributed	Billed	(Loss%)	Distributed	Billed	(Loss%)	Hydrants Flushed	Distributed	Billed	(Loss%)	Hydrants Flushed
January	10,683,000	9,050,400	15.28%	6,376,000	8,237,900	-29.2%	11	10,634,000	7,954,200	25.2%	10
February	12,939,000	9,205,400	28.86%	4,677,000	6,218,100	-32.95%	18	7,898,000	8,056,400	-2.01%	10
March	10,186,300	5,501,700	45.99%	4,137,000	6,925,900	-67.66%	15	6,995,000	6,767,400	3.25%	11
April	16,858,700	14,433,200	14.39%	4,741,000	7,832,400	-63.1%	24	7,463,000	6,815,200	8.68%	9
May	14,342,000	11,846,700	17.4%	6,578,000	13,648,200	-107.48%	24	10,935,000	8,905,800	18.56%	13
June	22,880,000	16,193,800	29.22%	13,692,000	18,196,700	-32.9%	15	14,651,000	10,984,800	25.02%	4
July	34,119,000	16,205,100	52.5%	29,517,000	23,477,700	20.46%	15	18,810,000	15,689,200	16.59%	38
August	27,277,600	28,348,600	-3.93%	34,108,000	39,977,600	-17.21%	15	17,570,000	12,254,200	30.25%	27
September	26,550,000	20,927,900	21.18%	18,924,000	19,778,000	-4.51%	6	19,468,000	16,829,800	13.55%	2
October	16,307,000	12,430,600	23.77%	8,893,000	11,802,400	-3.27%	12	12,369,000	11,815,500	4.47%	10
November	10,379,000	8,904,500	14.21%	10,708,000	11,881,800	-10.96%	24	11,479,000	8,216,200	28.42%	8
December	5,717,000	8,706,700	-52.3%	10,914,000	9,286,100	14.92%	20	9,639,000	7,851,000	18.55%	2
Totals	208,238,600	161,754,600	22.32%	153,265,000	177,262,800	-15.65%	199	147,911,000	122,139,700	17.42%	144

There was a broken meter Dec. 2011 thru June 2012, which is why the numbers are what they are for 2012.

Billing lags behind the usage so it is hard to view the true billed water losses. Multiple years are needed to spot a trend.

Flushing Hydrants and Dead Ends are included in the losses. Gallons flushed is not being recorded when it is done, by the person doing the flushing.

The Fire Departments do not report usage. Rural fires play a part in the losses.

Droughts and earthquakes play a part in water losses, creating breaks in the water pipes. The breaks are not being reported.

Theft of water plays a part in water loss.

Formula for Water Loss=Distributed-Billed/Distributed

Total in the (Loss) is the Average of those Months.

Attachment #1

Water Provided to PCRWC#3 Area

(Gallons)

	2014	2014	2014	2014	2015	2015	2015	2015	2,016	2016	2016	2016
	<u>Distributed</u>	<u>Billed</u>	<u>(Loss%)</u>	<u>-hydrants Flushec</u>	<u>Distributed</u>	<u>Billed</u>	<u>(Loss%)</u>	<u>-hydrants Flushed</u>	<u>Distributed</u>	<u>Billed</u>	<u>(Loss%)</u>	<u>Hydrants Flushed</u>
January	11,630,000	9,050,400	22.18%	22	17,960,000	9,009,500	49.84%	8	13,089,900	7,451,300	43.08%	11
February	9,860,000	9,205,400	6.64%	14	9,596,200	8,537,600	10.42%	6	11,466,500	6,984,500	39.08%	11
March	9,115,000	7,794,200	14.49%	2	17,089,100	6,228,200	63.55%	6	10,568,200	7,208,600	31.79%	11
April	13,803,700	9,633,300	30.21%	3	18,654,500	11,148,900	40.23%	4	61,837,800	10,223,800	83.35%	11
May	18,203,700	16,782,399	7.81%	14	14,985,400	9,589,600	36%	10	18,198,800	8,500,600	53.29%	67
June	12,640,400	12,477,000	1.29%	16	14,251,700	9,980,100	29.97%	9	20,590,300	13,371,800	35.06%	11
July	13,433,000	14,084,600	-4.85%	36	13,790,400	16,438,300	-19.20%	0	22,336,800	13,050,400	41.57%	52
August	16,258,200	15,740,400	3.18%	11	20,599,700	18,167,800	11.81%	0	21,597,000	15,248,000	29.40%	47
September	19,496,100	14,928,100	23.43%	31	17,448,000	15,537,400	10.95%	57	20,347,900	14,609,700	28.20%	49
October	19,443,600	11,768,400	39.47%	20	16,751,400	12,744,500	23.92%	50	18,137,800	9,612,400	47.00%	Not Provided
November	19,429,900	9,658,500	50.29%	13	8,871,800	8,911,000	-0.44%	15	18,832,100	9,375,200	50.22%	Not Provided
December	15,416,700	6,324,500	58.98%	13	10,182,900	7,469,000	26.65%	18	12,199,700	8,427,700	30.92%	Not Provided
Totals	178,730,300	137,447,199	21.09%	195	180,181,100	133,761,900	23.64%	183	249,202,800	124,064,000	42.75%	
		23.10%				25.76%				50.02%		

There was a meter that was not read for Dec. 2015 thru March 2016 which is why the numbers are what they are for 2016.

	2017	2017	2017	2017	2018	2018	2018	2018	2019	2019	2019	2019
	<u>Distributed</u>	<u>Billed</u>	<u>(Loss%)</u>	<u>Hydrants Flushe</u>	<u>Distributed</u>	<u>Billed</u>	<u>(Loss%)</u>	<u>-hydrants Flushed</u>	<u>Distributed</u>	<u>Billed</u>	<u>(Loss%)</u>	<u>Hydrants Flushed</u>
January	12,126,800	8,236,800	32.07%	38	13,302,300	10,079,800	24.23%	13	6,795,000	7,244,500	-6.62%	Not Provided
February	11,684,600	10,159,800	15.62%	64	14,041,100	7,632,300	45.64%	24	14,246,600	6,362,200	55.34%	Not Provided
March	12,984,900	7,823,600	39.75%	79	12,494,600	7,997,800	35.99%	15	12,567,200	6,188,400	50.75%	Not Provided
April	16,314,700	9,504,900	41.74%	128	13,260,500	7,680,300	42.08%	12	12,003,000	6,805,100	43.31%	Not Provided
May	9,058,800	7,868,800	13.14%	59	15,565,700	11,613,200	25.39%	10	9,212,800	7,816,500	15.16%	Not Provided
June	12,326,400	14,648,900	-18.84%	4	16,032,100	17,197,300	-7.27%	1	10,180,300	8,581,000	15.71%	Not Provided
July	10,992,300	15,806,300	-43.79%	65	19,163,100	14,474,900	24.46%	Not Provided	11,761,300	15,689,800	-33.40%	75
August	9,059,500	16,550,400	-82.68%	46	16,008,300	16,885,200	-5.48%	Not Provided	6,802,100	19,281,800	-183.47%	105
September	100,324,700	15,997,100	84.05%	68	17,897,900	12,116,400	32.30%	Not Provided	8,821,400	12,961,500	-46.93%	97
October	-79,717,600	9,356,100	111.74%	45	14,114,500	8,614,900	38.96%	Not Provided	8,070,000	8,603,300	-6.61%	100
November	13,034,800	8,108,000	37.80%	37	14,470,700	7,639,800	47.21%	Not Provided	7,728,500	8,505,900	-10.06%	4
December	11,851,700	6,864,600	42.08%	22	13,775,300	7,087,300	48.55%	Not Provided	6,874,700	6,510,400	5.30%	0
Totals	140,041,600	130,925,300	22.72%	655	180,126,100	129,019,200	29.34%		115,062,900	114,550,400	-8.46%	
		6.51%										

Attachment #1

Water Provided to PCRWC#3 Area

(Gallons)

	2020	2020	2020	2020	2021	2021	2021	2021	2022	2022	2022	2022
	<u>Distributed</u>	<u>Billed</u>	<u>(Loss%)</u>	<u>Hydrants Flushed</u>	<u>Distributed</u>	<u>Billed</u>	<u>(Loss%)</u>	<u>Hydrants Flushed</u>	<u>Distributed</u>	<u>Billed</u>	<u>(Loss%)</u>	<u>Hydrants Flushed</u>
January	15,258,865	7,307,500	52.11%	3	9,871,030	8,138,500	17.55%	50	The	10,403,600	?	0
February	15,209,223	6,692,700	60%	0	9,744,090	8,772,000	9.97%	31	figures	6,651,300	?	0
March	14,878,857	6,660,200	55.24%	2	9,238,610	7,613,500	17.59%	71	that	7,421,100	?	2
April	14,404,232	6,602,800	54.76%	2	10,692,270	8,990,800	15.91%	44	were	10,175,500	?	0
May	15,620,973	11,147,700	28.64%	8	10,823,660	8,876,300	17.99%	42	provided	12,425,000	?	0
June	20,618,141	17,076,600	17.18%	11	11,745,505	10,228,700	12.91%	36	DO	10,097,800	?	0
July	14,015,150	17,175,300	-22.55%	9	17,310,700	15,750,500	9.01%	1	NOT	27,167,300	?	0
August	29,751,450	19,285,400	35.18%	11	16,363,030	15,470,400	5.46%	6	Addup	22,074,400	?	62
September	19,172,500	16,201,300	15.50%	3	14,977,120	13,760,800	8.12%	0	Correctly.	21,130,800	?	128
October	14,039,850	13,331,700	5.04%	0	10,708,175	9,183,300	14.24%	0	I	17,288,400	?	63
November	11,478,650	11,273,300	1.79%	37	10,208,693	9,039,700	11.45%	0	am	11,192,500	?	109
December	7,594,340	7,819,800	-2.97%	82	8,446,285	7,138,500	15.48%	0	NOT	8,342,400	?	99
									Reporting			
Totals	192,042,231	140,574,300	24.99%	168	140,129,168	122,963,000	12.97%	281	0	164,370,100		463

	2023	2023	2023	2023
	<u>Distributed</u>	<u>Billed</u>	<u>(Loss%)</u>	<u>Hyd. Flushed</u>
January	20,414,400	10,298,900	49.55%	65
February	28,340,500	7,461,300	73.37%	38
March	20,099,800	7,373,700	63.31%	22
April	24,250,000	10,545,500	56.51%	0
May	14,091,900	12,031,600	14.62%	0
June	19,741,400	15,102,900	23.50%	0
July	17,551,900	13,215,100	24.71%	
August	32,038,600	18,328,700	42.79%	
September	15,838,800	16,715,500	-5.54%	
October				
November				
December				
Totals	192,367,300	111,073,200	38.09%	125

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Attachment #2

Customer Base in the PCRWC#3 area:

	Active Customers					New Customers					Customer Turnovers				
	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
January		1284	1307	1321	1353		8	14	7	16		0.62%	1.07%	0.53%	1.18%
February	1247	1284	1304	1321	1353	7	6	8	10	4	0.56%	0.47%	0.61%	0.76%	0.3%
March	1249	1284	1307	1326	1365	14	13	13	11	21	0.96%	1.01%	0.99%	0.83%	1.54%
April	1260	1283	1307	1326	1365	19	21	10	10	15	0.64%	1.71%	0.76%	0.75%	1.1%
May	1263	1284	1308	1340	1371	27	14	41	42	29	1.9%	1.01%	3.13%	3.13%	2.12%
June	1263	1287	1308	1340	1371	35	32	24	47	23	2.77%	2.26%	1.83%	3.51%	1.68%
July	1269	1287	1307	1340	1376	28	19	21	20	23	1.74%	1.48%	1.61%	1.49%	1.67%
August	1269	1288	1307	1340	1376	23	23	25	24	22	1.81%	1.63%	1.91%	1.79%	1.6%
September	1279	1299	1307	1346	1384	15	14	5	24	18	0.39%	0.23%	0.38%	1.78%	1.3%
October	1280	1299	1307	1346	1384	20	12	11	18	17	1.49%	0.92%	0.84%	1.34%	1.23%
November	1282	1299	1309	1345	1386	13	11	13	12	14	0.86%	0.85%	0.99%	0.89%	1.01%
December	<u>1282</u>	<u>1299</u>	<u>1309</u>	<u>1345</u>	<u>1386</u>	<u>9</u>	<u>12</u>	<u>16</u>	<u>15</u>	<u>15</u>	<u>0.7%</u>	<u>0.92%</u>	<u>1.22%</u>	<u>1.11%</u>	<u>1.08%</u>
Averages	1268	1290	1307	1336	1373	19	15	17	20	18	1.26%	1.09%	1.28%	1.49%	1.32%

	Active Customers					New Customers					Customer Turnovers				
	2015	2016	2017	2018	2019	2015	2016	2017	2018	2019	2015	2016	2017	2018	2019
January	1394	1416	1,485	1534	1546	19	8	10	11	17	1.36%	0.56%	0.67%	0.72%	1.10%
February	1394	1416	1,485	1534	1546	16	21	13	11	21	1.14%	1.48%	0.87%	0.72%	1.36%
March	1394	1416	1,485	1534	1546	21	13	23	19	20	1.51%	0.92%	1.55%	1.24%	1.30%
April	1394	1447	1,502	1543	Not Provided	14	30	18	28	17	1%	2.07%	1.19%	1.81%	*
May	1396	1447	1,502	1543	Not Provided	16	37	32	45	42	1.15%	2.56%	2.13%	2.92%	*
June	1396	1447	1,502	1543	Not Provided	42	32	37	37	37	3.01%	2.21%	2.46%	2.40%	*
July	1400	1457	1,507	1543	1475	37	23	30	22	31	2.64%	1.58%	1.99%	1.43%	2.10%
August	1400	1457	1,507	1543	1487	21	43	31	20	26	1.50%	2.95%	2.06%	1.30%	1.75%
September	1409	1457	1,507	1543	1481	14	14	8	14	14	1%	0.96%	0.53%	0.91%	0.95%
October	1409	1466	1,511	1556	1481	17	14	14	17	16	1.21%	0.95%	0.93%	1.09%	1.08%
November	1409	1466	1,511	1556	1481	9	13	8	18	14	0.64%	0.88%	0.53%	1.16%	0.95%
December	<u>1409</u>	<u>1466</u>	<u>1,511</u>	<u>1556</u>	<u>1488</u>	<u>14</u>	<u>14</u>	<u>20</u>	<u>24</u>	<u>21</u>	<u>1%</u>	<u>0.95%</u>	<u>1.32%%</u>	<u>1.54%</u>	<u>1.41%</u>
Averages	1400	1447	1,501	1544		20	22	20	22		1.43%	1.51%	1.36%	1.44%	

*Customer Turnover Rate is New Customers/Active Customers. I can't report if the city will not provide active customer numbers.

Attachment #2

Customer Base in the PCRWC#3 area:

	Active Customers				New Customers				Customer Turnovers			
	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
January	1494	1502	1503	1557	12	15	9	18	0.80%	0.99%	0.60%	1.16%
February	1492	1499	1499	1557	12	8	10	9	0.80%	0.53%	0.67%	0.58%
March	1497	1503	1501	1557	15	17	14	15	1%	1.13%	0.94%	0.96%
April	1490	1509	1495	1557	16	21	13	10	1.07%	1.39%	0.87%	0.64%
May	1499	1511	1503	1557	38	25	27	28	2.53%	1.65%	1.80%	1.80%
June	1504	1526	1506	1557	39	35	40	37	2.59%	2.29%	2.66%	2.38%
July	1494	Not Provided	1551	1557	32	29	31	27	2.14%	*	2.00%	1.73%
August	1502	Not Provided	1551	1557	25	23	19	16	1.66%	*	1.23%	1.03%
September	1502	Not Provided	1551	1557	19	24	19	7	1.26%	*	1.23%	0.45%
October	1496	Not Provided	1551		13	10	16		0.86%	*	1.03%	
November	1499	Not Provided	1551		16	13	3		1.06%	*	0.19%	
December	<u>1499</u>	Not Provided	1551		<u>19</u>	<u>13</u>	<u>13</u>		<u>1.26%</u>	*	0.87%	
Averages	1,497		1526	1557	21	28	18	19	1.42%		1.17%	1.19%

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Attachment #3

New Water Meters Requested and Installed in the PCRWC#3 area

	2008	2008	2009	2009	2010	2010	2011	2011	2012	2012	2013	2013	2014	2014
	Requested	Installed	Requested	Installed	Requested	Installed	Requested	Installed	Requested	Installed	Requested	Installed	Requested	Installed
January	1	2	0	0	0	0	1	0	0	0	15	18	0	0
February	1	1	0	0	0	0	8	0	0	0	1	1	0	0
March	0	13	0	0	0	1	2	0	3	0	1	1	1	0
April	0	1	0	0	0	2	1	1	1	2	5	4	1	1
May	0	0	4	0	4	10	3	0	3	0	1	1	4	0
June	0	0	1	0	1	0	0	0	3	3	9	6	3	1
July	0	2	4	4	4	0	5	1	1	0	4	9	4	4
August	0	0	6	0	6	0	8	0	0	0	1	3	0	5
September	0	0	5	0	5	1	0	2	1	0	0	1	3	5
October	0	0	4	0	4	6	1	6	0	0	6	12	3	1
November	0	0	4	0	4	4	0	2	1	50	3	0	0	3
December	0	0	0	5	0	0	4	0	11	4	4	0	1	0
Totals	2	19	28	9	28	24	33	12	24	59	50	56	20	20
	2015	2015	2016	2016	2017	2017	2018	2018	2019	2019	2020	2020	2021	2021
	Requested	Installed	Requested	Installed	Requested	Installed	Requested	Installed	Requested	Installed	Requested	Installed	Requested	Installed
January	0	0	0	0	11	1	0	3	3	0	2	0	2	0
February	0	0	1	0	3	4	1	0	2	5	0	1	0	0
March	6	0	3	0	1	4	2	2	0	5	2	0	1	2
April	2	5	5	3	14	3	6	4	3	1	0	0	0	2
May	0	1	2	6	2	10	3	4	2	2	1	1	3	1
June	3	0	3	2	2	1	4	0	0	2	3	2	1	1
July	1	2	0	1	3	0	1	6	0	2	2	1	0	1
August	3	1	2	3	2	2	0	1	1	0	0	4	1	0
September	2	1	3	1	0	2	2	0	5	3	2	0	0	1
October	1	3	0	2	3	3	2	1	2	1	1	0	0	2
November	6	2	3	3	2	2	2	4	1	2	2	3	0	2
December	1	5	0	4	1	1	8	2	1	4	4	0	0	2
Totals	25	20	22	25	44	33	31	47	20	27	19	12	8	14

Attachment #3

New Water Meters Requested and Installed in the PCRWC#3 area

	2022	2022	2023	2023
	Requested	Installed	Requested	Installed
January	6	0	1	1
February	12	0	0	2
March	2	4	1	1
April	3	1	0	1
May	10	0	0	0
June	4	3	1	1
July	0	0	0	1
August	0	2		
September	0	1		
October	2	2		
November	1	3		
December	0	0		
Totals	40	16	3	7

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Attachment #4

Status of Projects Affecting Former PCRWC#3 (Amended Exhibit C and Other Projects)

Phase 1 – Items to be completed July 1, 2011 thru June 30, 2013

#1 - Hilltop Booster Pump Station

Project Description: Replace all piping in the vault of the lift station. Install second pump and refurbish electrical controls. Shown as Item 3a in Proposed Water Utilities General Capital Projects.

Status: Completed 2012 - Will be Abandoned with Water2040.

#2 - Various Locations

Project Description: Install flush/fire hydrants at locations to be determined by field operations personnel. Shown as Item 3b in Proposed Water Utilities General Capital Projects.

Status: Completed 2013

#3 - Country Club between 37th and 44th (map #01-31)

Project Description: Install 650 feet of 4" line. Shown as Item 3c in Proposed Water Utilities General Capital Projects.

Status: Phase 1 was completed in fall of 2016. Phase 2 is currently out to bid.

#4 - Vicinity of 19th - Location TBD

Project Description: Install chlorine injection facility to boost chlorine residual in the system. Shown as Item 3d in Proposed Water Utilities General Capital Projects.

Status: The City will address system wide chlorine residuals in its water quality study and master plan, currently in design.

#5 - OSU Plant

Project Description: Remove meter, abandon 3,000 feet of 10" line.

Status: Completed 2009

#6 - 44th and Country Club

Project Description: Install three cross-connections between parallel 4" pipes on 44th.

Status: Completed 2011

#11 - Hidden Oaks

Project Description: Install Booster Pump Station - 2 pumps, 3hp- at intersection of Hidden Oaks and 19th (annexed into the City Limits).

Status: Completed temporary pump station located on Range Road serving Hidden Oaks and Boulder Creek. Water2040 improvements will address long term needs in this area.

#13 - Nottingham Tower and Pump Station

Project Description: Add 20 feet to standpipe and build new pump station at Cottonwood and 19th, 2 pumps - 200 GPM at 100ft of head (approx. 10hp). Shown as Item 3a in Proposed Water Utilities General Capital Projects.

Status: The 44th Tower and Range BPS will replace Nottingham Tower and Pump Station.

#14 - Karsten Area

Project Description: Extend waterline to Fire Academy to improve water quality - Install 400 LF of 6" line. Shown as Item 3f in Proposed Water Utilities General Capital Projects.

Status: The City will look at the system requirements in this area in its water quality study and master plan, currently in design.

#17 - Bilyeu Tower

Project Description: Take out of service and remove. Relocate to property on Vista Drive. Install 650 feet of 6" line to connect to system and altitude valve. Shown as Item 3g in Proposed Water Utilities General Capital Projects.

Status: Bilyeu Tower has been taken out of service, and will be removed. Water pressure on Vista Lane is being addressed via Water2040 improvements.

#18 - *Range Road Pump Station*

Project Description: Demolish

Status: Completed 2009

#24 - *School, Nottingham, Twin (2), Tan-Tar-A, Coyle Towers*

Project Description: Remove altitude valves or install bypass so that tank floats on system.

Status: Completed 2012

#25 - *Redlands Rd between SH51 and Lakeview*

Project Description: Cap off 2.5" near Redland/Airport, connect 2.5" going north to T of 4"/3", move 5 individual services to 4", move connects for 2.5" pipes on W 2nd and W Virginia to the 4" line. Shown as Item 3b in Proposed Water Utilities General Capital Projects.

Status: Completed 2012

Phase 2 – Items to be completed July 1, 2011 thru June 30, 2015

#7 - Lakeview between Redland and Cottonwood

Project Description: Install ½ mile of 4" line on Lakeview to complete the loop.

Status: Delayed due to additional projects (ODOT projects and Yost Pump Station and Yost Tower).

#12 - Yost Booster Pump Station and School Tower

Project Description: Added: To replace #14, since this is needed now. Relocate and rebuild the pump station. It continues to flood during heavy rains. Add 20 feet to School Tower standpipe.

Status: Project currently in design phase. Pump station will be constructed at WTP and a new elevated storage tank will replace School and Reisbeck Towers.

#27 - *19th between Range and Country Club*

Project Description: Connect dead ends with 600 LF of 3" line, including a creek crossing and bore under the road, install a flush hydrant.

Status: Completed 2010. Abandoned approximately 1 mile of small diameter water line and made connections between the rural and municipal systems to eliminate the dead end.

#32 - Lakeview Rd between Country Club Rd and Range Rd

Project Description: Install about 5300 LF of 6" line to connect 8" line at Country Club Rd and 6" line at Range Rd.

Status: Delayed due to additional projects (ODOT projects and Yost Pump Station and Yost Tower).

Phase 3 – Items to be completed July 1, 2011 thru June 30, 2017

#8 - Sangre ½ mile north of 44th

Project Description: Install master meter to City system and ½ mile of 6" pipe between meter and 44th.

Status: On hold - To be addressed by Water2040 Projects

#9 - Karsten Road south of SH51

Project Description: Install 130 feet of 6" pipe to loop 3".

Status: Delayed due to additional projects (ODOT projects and Yost Pump Station and Yost Tower).

#10 - *Western between 56th and 44th*

Project Description: Install 1300 feet of 6" pipe to connect new tower at 56th to water line on Western.

Status: Completed as 18" water line in 2016.

#15 - *44th and Country Club - Boersma Pump Station*

Project Description: Add VFDs, controller and telemetry to Boersma Pump Station.

Status: Replaced the entire pump station in 2012.

#16 - *White Tower*

Project Description: Remove

Status: Completed 2017

#19 - OSU Pump Station

Project Description: Take out of service, install 7,600 feet of 4" pipe connected to OSU Farm with existing 2.5" pipe on 44th between Hackelman Rd and Karsten Creek Rd.

Status: Delayed due to additional projects (ODOT projects and Yost Pump Station and Yost Tower).

#20 - Booster Pump Stations

Project Description: Connect to WTP SCADA system to monitor

Status: SCADA installed at Boersma and Yost Pump Stations in 2012. Range and Nottingham stations will be demolished. Karsten, Hilltop and OSU stations delayed due to additional projects (ODOT projects and Yost Pump Station and Yost Tower). A future SCADA Master Plan is currently on the City's Capital project list and will address the SCADA needs for each site.

#21 - Eight Standpipes

Project Description: Install 8 foot security fence along perimeter of easement.

Status: Tan-Tar-A, Coyle, and Reisbeck are complete. School/Yost standpipe will be replaced with the Yost Tower Project, and the Twin Towers will be replaced with the 44th Tower. White, Nottingham and Bilyeu standpipes will be demolished.

#22 - Eight Standpipes

Project Description: Add diffusers/mixing systems.

Status: Mixing system installed at Tan-Tar-A Tower in 2017. Mixing system for Coyle Standpipe is delayed pending trial period at Tan-Tar-A Tower. Reisbeck and Bilyeu standpipes will be demolished. Yost standpipe will be replaced with the Yost Tower project, which will be designed with separate in/out feeds for effective mixing. Twin Towers will be demolished and replaced with 44th Tower, which is designed with separate in/out feeds for effective mixing.

#23 - Eight Standpipes

Project Description: Connect to WTP SCADA system to monitor

Status: Coyle and Tan-Tar-A SCADA is delayed due to additional projects (ODOT Projects and Yost Pump Station and Yost Tower). Reisbeck and Bilyeu Standpipes will be demolished. Yost standpipe will be replaced with the Yost Tower project, which will be connected to

SCADA. Twin Towers will be demolished and replaced with 44th Tower, which will be connected to SCADA.

#26 - *Country Club Rd between 6th and McElroy*

Project Description: Install 3500 LF of 6" line between end of City line on Country Club and RWC #3 line north of creek.

Status: Completed 2015

#28 - *Woodlake Subdivision*

Project Description: Install 350 feet of fusible PVC along the dam to cross the lake.

Status: Completed 2012

#29 - Karsten Creek, Hilltop Pump Station

Project Description: Install VFDs, controls and telemetry: add equipment to communicate with SCADA system at WTP.

Status: Karsten Creek Pump Station delayed due to additional projects (ODOT projects and Yost Pump Station and Yost Tower). Hilltop Pump Station to be demolished.

#30 - Tan-Tar-A Subdivision

Project Description: Install 1200 feet of 4" pipe to complete a loop to the Tan-Tar-A Subdivision.

Status: Delayed due to additional projects (ODOT projects and Yost Pump Station and Yost Tower).

#31 - Range Rd, Lakeview to Airport

Project Description: Connect dead end - Install 2900 feet of 6" pipe.

Status: Delayed due to additional projects (ODOT projects and Yost Pump Station and Yost Tower).

Additional Projects

A - *ODOT Project - Harrington Creek Crossing on S.H. 51 East Bound Lane*

Project Description: The bridge was replaced by ODOT and the water lines had to be moved per design.

Status: Completed 2012

B - *ODOT Project - Range and McElroy Bridge Replacement*

Project Description: The bridge was replaced over Stillwater Creek and the intersection realigned by ODOT, which required the existing rural water lines to be replaced.

Status: Completed 2013

C - *Water2040 Program*

Project Description: Upgrade the existing water systems (pumping, piping and storage) to improve service to municipal and rural system customers and allow for future development.

Status: Completed 2021

D - Water2040 Program - Highway 51 and Country Club Road Water Pump Station and Transmission Water Line to Range Tower

Project Description: New pump station needed to replace the existing below ground pump station at the corner of Country Club Road and HWY51.

Status: Completed 2017

E - ODOT Project - Phase 2 of the Modification of Country Club Road between McElroy and Lakeview

Project Description: Country Club Road was reconstructed by ODOT and the existing rural water main needed to be replaced.

Status: Completed 2016

F - Hydrant Flushing Schedule

Project Description: Monthly flushing schedule created and posted on City website for public view.

Status: Completed 2016-Currently not done on a regular basis.