Utility Rate Discussion Commission Work Session

Tuesday, November 8, 2022 5:00 p.m.

Water Rate History

2013

 In December the City Commission approved a water rate increase for 2014 & 2015

2014

 Rates increased by \$2.78/mo to \$16.53/mo. for the first 200 cu.ft.

2015

 Water rate increased by \$1.12/mo. as per the 2013 ordinance (last time water rates increased)

Sewer Rate History

2013

• Plant Upgrade Fee created to pay for significant upgrades to the Wastewater Treatment Plant (20-year loan). The fee is **38 percent of a customer's sewer charge**. Commission at the time said that when construction was complete and actual costs known, they would consider reducing the fee.

2013

• The City Commission approved a regular sewer rate increase for 2015, 2016, 2017, & 2018 of \$1.59/mo

2015

• In January, a rate increase was implemented of \$1.59/mo to the regular rate for each customer

Sewer Rate History

2016

- In January, a rate increase was implemented of \$1.59/mo to the regular rate.
- In September, the City Commission voted to keep the Plant Upgrade Fee (38%) in place in order to pay off the plant loan 10-11 years early. However, they asked that the increase to the regular rate be taken from the plant upgrade revenues to offset the planned rate increase approved in 2016.

2017

• No increase to regular rate, \$1.59/mo/customer was transferred from the plant upgrade fee revenues to offset the regular rate for 2017 and each year forward as Commission directed in 2016.

2018

• No increase to regular rate, an additional \$1.59/mo/customer was transferred from the plant upgrade fee revenues to offset the regular rate increase for 2018 and each year forward as Commission directed in 2016.

Definition of Two Sewer Charges



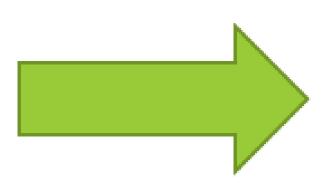
1. Regular Rates—pays for operating budget expenses & debt service payments for all projects bonded or for state loans payments, except for the WWTP Project



2. Plant Upgrade Fee—pays for the annual debt service payments & the extra principal payment on the state project loan.

Take what goes down the drain & turn it into...a clean product.







Wastewater collection system—Sewer lines (123 miles of sewer with 2,448 manholes) carry wastewater from homes and businesses to the Treatment Plant. All these lines are cleaned and maintained approximately one time per year if a 6" or 8" line. Larger lines are cleaned every 3 years unless it is problem location that is on our hot spot list.

Lift stations — 8 to maintain, problematic during power outages

Wastewater Treatment Plant —treats about 2.5 million gallons/day that comes in as raw sewage and goes out as clean water. Maximum flow during rain events could be 9 million gallons or more.

Effluent line —Clean discharge from the WWTP goes to the Golf Course to water the course and to the wetlands to keep it wet. This line and system is maintained & continually monitored.





21 miles of storm sewer lines, 677 box inlets, 162 manholes

6,371 miles of street sweeping/year

Drainage ditch maintenance

Sand Creek maintenance

Storm Sewer NPDES Permit Compliance

Wastewater Treatment

Salaries of maintenance & support staff

Equipment replacement

Major infrastructure projects

Bond & interest payments, etc.

Aging Infrastructure Requires Rehabilitation --- Sewer Projects Recently Completed & Bonded

Sand Creek Dam Rehabilitation

Old Main Sewer Upsizing

8th & Sand Creek Sewer Upsizing

Increase in Annual Debt Service Bond Payment: \$195,310



What does the Plant Upgrade Fee pay for?

Sewer Plant Upgrade Low Interest Loan Payments to KDHE for Project Completed in 2016.

Purpose of project:

- 1. To meet changing regulations of our permit
- 2. To increase the capacity of the plant
- 3. To replace equipment and infrastructure that had outlived its useful life

Comparison	Original 2012	Nov. 2022	If Keep Plant	If End Plant
Comparison	Original 2013	Nov. 2022	Upgrade Fee	Upgrade Fee
WWTP Loan Payoff				
Year	2044	2033	2026	2033
Savings in Interest	\$ -	\$ 770,000	\$ 2,300,000	\$ 770,000
Extra Principal				
Payments	\$ -	\$ 5,600,000	\$ 9,681,000	\$ 5,600,000

Note: Savings in Interest if Keep Plant Upgrade Fee is estimated.

Total Funds Saved By Making Extra Payments On WWTP Loan from Plant Upgrade Fee

Regular Sewer Rates (Plant Upgrade Fee is separate)

	A	В	C	D	E	F
	Monthly	Taken	Total of Monthly	Each 100	Monthly	Each 100
	Minimum	From	Minimum +Taken	cu.ft.	Minimum	cu.ft.
	Inside City	38% Plant	from 38% Plant	Thereafter	Outside	Thereafter
		Upgrade	Upgrade Fee	Inside City	City	Outside
X 7		Fee				City
Year						
2014	\$31.78		\$31.78	\$8.70	\$58.48	\$11.30
2015	\$33.37		\$33.37	\$8.70	\$61.65	\$11.30
2016	\$34.96		\$34.96	\$9.00	\$64.83	\$11.70
2017	\$34.96	\$1.59	\$36.55	\$9.00	\$64.83	\$11.70
2018	\$34.96	\$1.59	\$38.14	\$9.00	\$64.83	\$11.70
2019	\$34.96		\$38.14	\$9.00	\$64.83	\$11.70
2020	\$34.96		\$38.14	\$9.00	\$64.83	\$11.70
2021	\$34.96		\$38.14	\$9.00	\$64.83	\$11.70
2022	\$34.96		\$38.14	\$9.00	\$64.83	\$11.70

Current Plant Upgrade Fee Revenues

Plant Upgrade Fee	Brea	kdown
Total Fees Collected	\$	19,340,997
\$1.59 Transferred (2 yrs)	\$	(1,509,915)
Debt Service	\$	(8,230,950)
Extra Payments	\$	(5,600,000)
Reserve Required by		
State Loan	\$	(1,881,602)
Plant Maintenance		
Reserve as est. by		
Commission	\$	(962,500)
Remainder for 2023		
Extra Payment	\$	1,156,030









What service is provided for water rate?

Water production – pumped from groundwater in Equus Beds (14 city wells)

Water treatment at Mission Plant

Water transmission from treatment plant to 1st Street Booster Station (20 miles of lines)









What service is being provided for water rate?

Water distribution from Booster Station to water towers through underground lines to your home or business (161 miles of lines, 907 fire hydrants)

Replace meters 500-800 per year on 10- to 20-year cycle (approx. 8,600 meters total)

Maintenance of all wells, lines, towers, pump stations, booster stations, hydrants, valves, etc.

Salaries of maintenance & support staff

Equipment replacement

Major infrastructure projects

Bond & interest payments, etc.

Issues Impacting Expenses For Water & Sewer

Pandemic—Spring of 2020, COVID-19 begins impacting USA and Newton, Kansas.

Texas Freeze—natural disaster declared in February of 2021. 2 of 3 largest PVC pipe manufacturers in the nation were impacted causing material shortages & price increases.

Hurricanes—shut down supply chains & caused increased material prices.

New Federal Regulations—updates to lead & copper rule, CDL regulations, NPDES permit



Staffing Issues—Turn-over, more staff needed, more training

Material Price Increases—pipe, all pipeline appurtenances, meters, concrete/asphalt, chemicals, fuel, vehicles, etc...







Sewer Maintenance Increases 2012-2022

Sewer Lift Station Enzymes 28%

Saw Motors 14%

Televising Vehicle 21%

Vactor Truck 39%

Air Sweeper 25%

High Loader 55%

Insurance (Property & Liability) 13%

Stormwater Maintenance 150%



Water Maintenance Expense Increases 2012-2022

Meter Pits 53%

Meter Setters 48%

Meters 21-26%

Pipe (various) 67-80%

Meter Radios 16%

Repair Clamps 81%

Fuel 33%

Caustic Soda 53%

Chlorine 64%

Fluoride 8%

Insurance (Property & Liability) 13%

What Have We Done To Keep Utility Expenses Down?

- •Refinanced bonds to save interest costs for both Sewer & Water
- •Moved state required water analysis at WWTP to private lab to save on equipment purchases & staff time (Kept operational plant process lab analysis in-house)
- •Ongoing analysis of WWTP process & how to operate the least amount of powered equipment & polymer additive to still achieve state required treatment results
- Working on pilot project for using sludge to create Class A biosolids to use as cover(top layer of dirt) on construction projects
- •Remotely control treatment plants on weekends to save OT costs
- •Buried electrical lines from wells to Mission Plant to improve reliability & limit outages/damages from storms

What Have We Done To Keep Sewer Expenses Down?

Paid Cash For The Following Projects To Avoid Debt & Interest Costs:

- 2016 Sewer Rehab
- NMC Sewer Extension
- 4th & Boyd Culvert Repair
- Grandview Drainage
- Centennial Park Sewer Lift Station
- Centennial Park Drainage Channel
- Slate Creek Channel Rehab
- Suderman Drainage
- Portion of 8th & Sand Creek Sewer Upsize
- Windows 10 Upgrade for Utility Computers
- SE 14th Street Storm Sewer
- Girl Scout Little House Sewer
- Upgrade 2 of 4 influent pumps at WWTP w/VFD's

Projects from 2016 -2021

Total Cost of These Projects: \$1,723,314

What Have We Done To Keep Water Expenses Down?

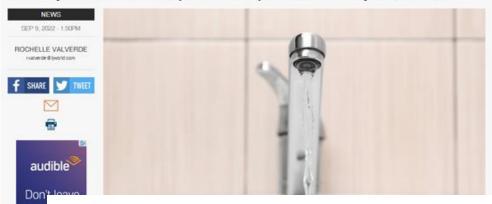
Paid Cash For The Following Projects To Avoid Debt & Interest Costs:

- 5th & Elm Large Water Main Break
- Equipment Purchases
- Windows 10 Upgrades for Utility Computers
- Ground Level Storage Tank, W. 1st
- Wheatridge Waterline
- Security Cameras for Facilities
- Switch gear for generator transfer switch upgrade & VFD Additions on high service pumps at Mission

Projects from 2016 -2021

Total Cost of These Projects: \$560,731

Lawrence City Commission to discuss proposal to increase water rates by 8.75% in 2023, possible expansion of utility assistance



BWL board OKs two-year price hike for electric, water customers



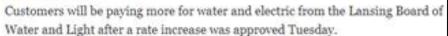
Published 7:23 p.m. ET Sept. 27, 2022.











The utility will raise electricity rates 9% and water prices more than 18% over the next two years, with about half of the increase starting Nov. 1 and the rest kicking in a year later.

BWL hopes to raise electric, water rates for Lansing area customers

The rates will increase by 4.5% and water rates more than 9% effective Nov. 1, wi the same electric increases and a slightly larger water increase on Nov. 1, 2023. Customers would see the first increase in their December bills and by December 2023 a typical residential customer with both electric and water service would se their annual costs rise by \$208, or more than \$17 a month.

Lots of Cities \$\$

South Hutchinson Council approves seeking water rate study













The Wichita Cagle

Obituaries Sports Business Voter Guide Opinion Dining Jobs/Recruiting Personal Finance Betting

POLITICS & GOVERNMENT

Wichita poised for more water, sewer rate increases in 2023 if council approves plan

BY MATTHEW KELLY

OCTOBER 14, 2022 1:55 PM





The South Hutchinson City Council made a couple of the ongoing pursuit of additional water for the city. But to loom on the complex issue.



Not All Cities & Utilities Are Created Equal

Different Treatment Types

Water Regulations

- Depends on size of city & flow
- Depends on type of source (ground or surface)
- Depends on water analysis which is triggered by water source and type of water lines used
- Depends on Water Right Allocation & Status
- ❖EPA, KDHE, & DWR Regulated

Wastewater Regulations

- Depends on size of city & flow
- Depends on receiving stream or lake
- Depends on time in permit cycle
- Some have storm water utilities
- **❖** EPA & KDHE Regulated

Not All Cities & Utilities Are Created Equal

Different Treatment Types

Water Treatment Types

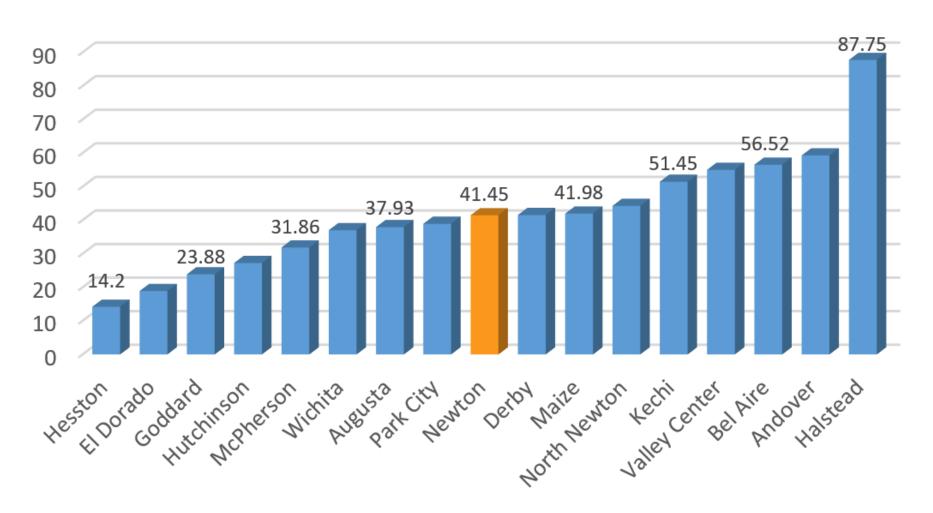
- Chlorine (most everyone)
- Lead & Copper, adjust pH using Caustic (Sodium Hydroxide), Sodium Bicarbonate for corrosion control
- ❖Fluoride (extra)
- Surface Water Bacteria Issues, Filters and/or UV

Wastewater Treatment Types

- Natural vs. Chemical
- Conventional: primaries & sludge
- Activated Sludge: most popular
- Activated Sludge Plus: BNR (growing bacteria w/on-off air), ENR (treating P&N w/air & chemical), LOT (best technology)
- ❖ Disinfection: Chlorine or UV

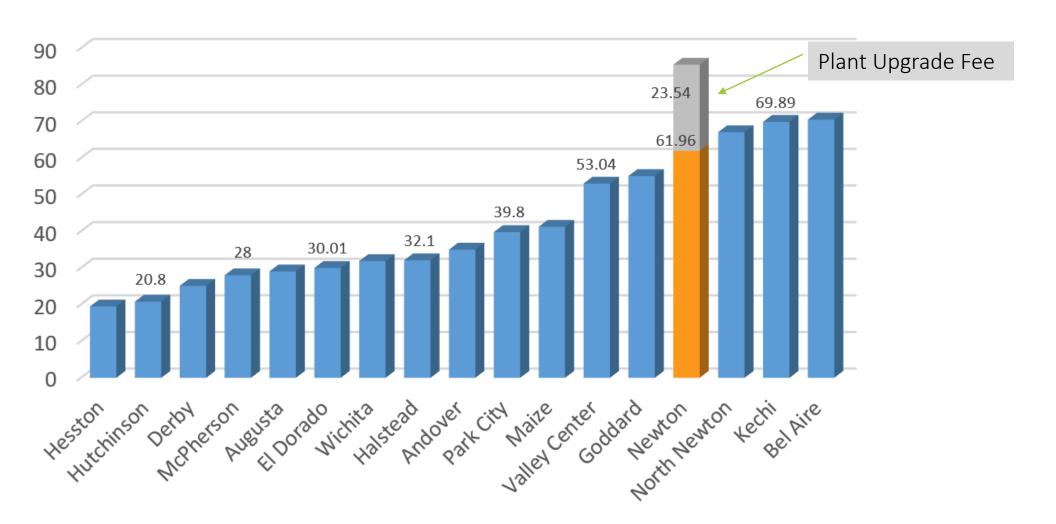
Water rates in Wichita area

Water Cost for 600 cubic feet (~5000 gallons)



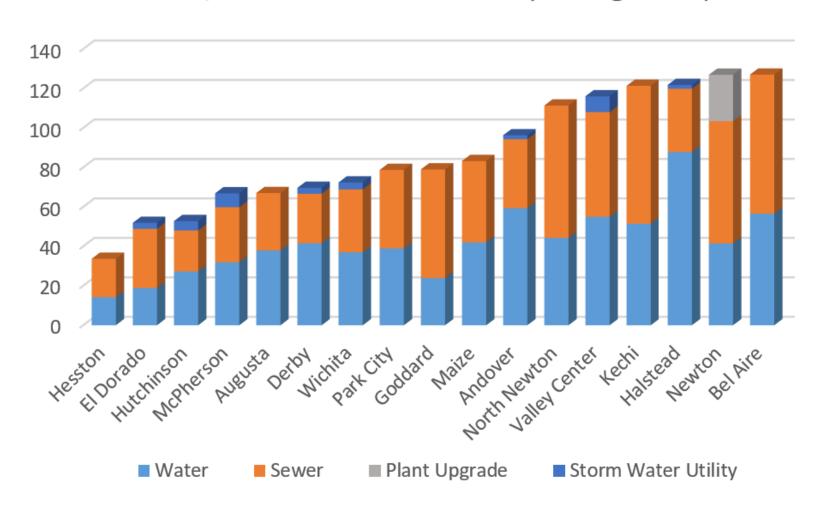
Sewer rates in Wichita area

Sewer Cost for 600 cubic feet (~5000 gallons)



Utility bills in Wichita area

Water/Sewer Bill for 600 cu ft (5000 gallons)



Jerry McKenzie—Rate Study Overview

- Senior Manager, Performance Solutions Group
- ❖35+ years experience in completing utility rate reviews
- ❖ Public Utility Accounting Lead Instructor since 1989
- Completed over 300 individual utility rate reviews



Background—Rate Analysis

- 1. Driving the need for rate changes
 - i. Infrastructure needs (environmental concerns & upgrades)
- ii. Nature of Utilities (capital debt intensive)
- 2. Last study decision made to focus rate adjustments on base usage
- i. Since all customers benefit from infrastructure changes
- ii. Inline with national trends (away from tiers-consolidation)
- iii. Tiers are hard to defend from cost/causation standpoint



The 2022 Rate Review Process

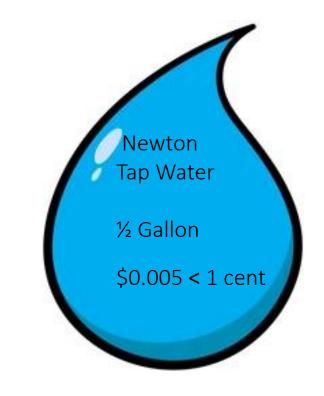
- 1. Utilized MGT Utility Rate Forecasting Model
- 2. Analysis based on 2023 Budget for both water & sewer
- 3. Reviewed past audited costs & revenue patterns
- 4. Expenditures analyzed at very detailed level
 - i. Reviewed/forecast (10 years)
 - ii. At Dept/Div level (Admin/Billing/Distr/Trans/Prod/Plant)
 - iii. Further examined by acct WITHIN Pers/Contr/Comod/Cap/Tsf
- 5. Results presented in same format as Schedule of Rev/ Exp & Chgs in Fund Bal (ACFR)
- 6. Draft results presented and several rate adjustment options were considered & vetted



Current Water Rate Comparison



2Liters = 1/2 Gallon



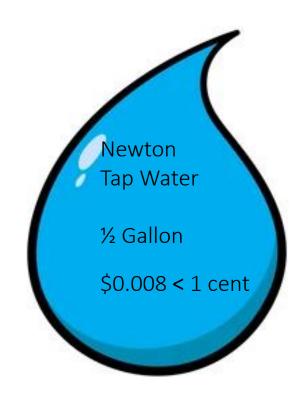


Base rate 200 cu.ft. =1,496 Gallons

Proposed 9.5% Increase Water Rate Comparison



2Liters = 1/2 Gallon



Base rate 200 cu.ft. =1,496 Gallons



Sewer Rate Options

Option 1—Save in Long Run

Pay off WWTP in 2026 Keep Plant Upgrade Fee until 2026 Base Rate Increases 3% in 2023



Base Rate for 2023 is \$36.01

+

Plant Upgrade Fee is 38% of sewer bill

Option 2—No Rate Change

Pay off WWTP in 2033
Stop extra payment for WWTP
Plant Upgrade Fee is eliminated
Base Rate Increases 38% in 2023



Base Rate for 2023 is \$48.24 Plant Upgrade Fee is 0.

Option 3—Save Upfront

Pay off WWTP 2033 Stop extra payment for WWTP Plant Upgrade Fee is eliminated Overall Sewer Rate decreases



Base Rate for 2023 \$39.16 Plant Upgrade Fee is 0.

WASTEWATER			Option #1	- PAY OFF I	EARLY/SAV	/E IN THE L	ONG RUN		
	(Current	2023	2024	2025	2026	2027	2028	2029
	Percent								
	Increase		3%	6%	6%	15%	0%	0%	0%
Base Inc. 300cf	34.96		36.01	38.17	40.46	46.53	46.53	46.53	46.53
Per 100/CF	9.00		9.27	9.83	10.42	11.98	11.98	11.98	11.98
Plt Upgrade	38%		38%	38%	38%	-	-	-	-
Small base usage	300	34.96	36.01	38.17	40.46	46.53	46.53	46.53	46.53
Per 100/CF		9.00	9.27	9.83	10.42	11.98	11.98	11.98	11.98
Plt Upgrade		16.70	17.21	18.24	19.33	-	-	-	-
	_	60.66	62.48	66.23	70.21	58.51	58.51	58.51	58.51
Medium base usage	600	34.96	36.01	38.17	40.46	46.53	46.53	46.53	46.53
Per 100/CF		27.00	27.81	29.48	31.25	35.93	35.93	35.93	35.93
Plt Upgrade		23.54	24.25	25.71	27.25	-	-	-	-
		85.50	88.07	93.35	98.96	82.46	82.46	82.46	82.46
Large base usage	900	34.96	36.01	38.17	40.46	46.53	46.53	46.53	46.53
Per 100/CF		54.00	55.62	58.96	62.49	71.87	71.87	71.87	71.87
Plt Upgrade		33.80	34.82	36.91	39.12	-	-	-	-
		122.76	126.45	134.03	142.08	118.40	118.40	118.40	118.40

Sewer Rate Option 1Save In Long Run

Sewer Rate Option 2-No Rate Change

		CURRENT							
Current			Option #2 -	NO RATE C	HANGE - ST	TOP EXTRA	PAYMENT		
			2023	2024	2025	2026	2027	2028	2029
	Percent								
	Increase		38.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Base Inc. 300cf	34.96		48.24	48.24	48.24	48.24	48.24	48.24	48.24
Per 100/cf	9.00		12.42	12.42	12.42	12.42	12.42	12.42	12.42
Plt Upgrade	38%		-	-	-	-	-	-	-
Small base usage	300	34.96	48.24	48.24	48.24	48.24	48.24	48.24	48.24
Per 100/cf		9.00	12.42	12.42	12.42	12.42	12.42	12.42	12.42
Plt Upgrade		16.70							
		60.66	60.66	60.66	60.66	60.66	60.66	60.66	60.66
Medium base usage	600	34.96	48.24	48.24	48.24	48.24	48.24	48.24	48.24
Per 100/cf		27.00	37.26	37.26	37.26	37.26	37.26	37.26	37.26
Plt Upgrade	_	23.54							
		85.50	85.50	85.50	85.50	85.50	85.50	85.50	85.50
Large base usage	900	34.96	48.24	48.24	48.24	48.24	48.24	48.24	48.24
Per 100/cf		54.00	74.52	74.52	74.52	74.52	74.52	74.52	74.52
Plt Upgrade	_	33.80							
		122.76	122.76	122.76	122.76	122.76	122.76	122.76	122.76

Current Base Fe	ee		Option #3	- SAVE UP	FRONT - ST	OP EXTRA	PAYMENT		
			2023	2024	2025	2026	2027	2028	2029
	Percent								
	Increase		12%	12%	12%	6%	6%	6%	6%
Base Inc. 300cf	34.96		39.16	43.85	49.12	52.06	55.19	58.50	62.01
Per 100/cf	9.00		10.08	11.29	12.64	13.40	14.21	15.06	15.96
Plt Upgrade	38%		-	-	-	-	-	-	-
Small usage	300	34.96	39.16	43.85	49.12	52.06	55.19	58.50	62.01
Per 100/cf		9.00	10.08	11.29	12.64	13.40	14.21	15.06	15.96
Plt Upgrade		16.70	-	-	-	-	-	-	-
		60.66	49.24	55.14	61.76	65.47	69.39	73.56	77.97
Medium usage	600	34.96	39.16	43.85	49.12	52.06	55.19	58.50	62.01
Per 100/cf		27.00	30.24	33.87	37.93	40.21	42.62	45.18	47.89
Plt Upgrade		23.54	-	-			-	-	-
		85.50	69.40	77.72	87.05	92.27	97.81	103.68	109.90
Large usage	900	34.96	39.16	43.85	49.12	52.06	55.19	58.50	62.01
Per 100/cf		54.00	60.48	67.74	75.87	80.42	85.24	90.36	95.78
Plt Upgrade	_	33.80	-	-	-	-	-	-	-
		122.76	99.64	111.59	124.98	132.48	140.43	148.86	157.79

Sewer Rate Option 3-Save Upfront

Water Rate Increase

No Rate Increase Since 2015

Current Water F	Rate		Rate Incre	ase Optior	1				
			2023	2024	2025	2026	2027	2028	2029
	Percent In	crease	9.5%	9.5%	9.5%	9.5%	5%	5%	5%
Base Inc. 200 cf	17.65		19.33	21.16	23.17	25.37	26.64	27.98	29.37
Per 100/CF	5.95		6.52	7.13	7.81	8.55	8.98	9.43	9.90
Small usage	300	17.65	19.33	21.16	23.17	25.37	26.64	27.98	29.37
		5.95	6.52	7.13	7.81	8.55	8.98	9.43	9.90
		23.60	25.84	28.30	30.99	33.93	35.63	37.41	39.28
Medium usage	600	17.65	19.33	21.16	23.17	25.37	26.64	27.98	29.37
	_	23.80	26.06	28.54	31.25	34.22	35.93	37.72	39.61
		41.45	45.39	49.70	54.42	59.59	62.57	65.70	68.98
Large usage	900	17.65	19.33	21.16	23.17	25.37	26.64	27.98	29.37
		41.65	45.61	49.94	54.68	59.88	62.87	66.02	69.32
		59.30	64.93	71.10	77.86	85.25	89.52	93.99	98.69

		CURRENT							
WASTEWATER			Option #1	- PAY OFF	EARLY/SAV	/E IN THE L	ONG RUN		
	Dorosst		2023	2024	2025	2026	2027	2028	2029
	Percent Increase		3%	6%	6%	15%	0%	0%	0%
Base Inc. 300cf	34.96		36.01	38.17	40.46	46.53	46.53	46.53	46.53
Per 100/cf	9.00		9.27	9.83	10.42	11.98	11.98	11.98	11.98
Plant Upgrade	38%		38%	38%	38%	-	-	-	-
Small usage	300	34.96	36.01	38.17	40.46	46.53	46.53	46.53	46.53
Per 100/cf		9.00	9.27	9.83	10.42	11.98	11.98	11.98	11.98
Plant Upgrade		16.70	17.21	18.24	19.33	-		-	-
		60.66	62.48	66.23	70.21	58.51	58.51	58.51	58.51
Medium usage	600	34.96	36.01	38.17	40.46	46.53	46.53	46.53	46.53
Per 100/cf	000	27.00	27.81	29.48	31.25	35.93	35.93	35.93	35.93
Plant Upgrade		23.54	24.25	25.71	27.25	-	-	-	-
The opposite	-	85.50	88.07	93.35	98.96	82.46	82.46	82.46	82.46
		23.55	23.07		23.33	-23	-20	-20	-25
Large usage	900	34.96	36.01	38.17	40.46	46.53	46.53	46.53	46.53
Per 100/cf		54.00	55.62	58.96	62.49	71.87	71.87	71.87	71.87
Plant Upgrade		33.80	34.82	36.91	39.12	-	-	-	-
	_	122.76	126.45	134.03	142.08	118.40	118.40	118.40	118.40
WATER			Option #1						
	Percent								
	Increase		2023	2024	2025	2026	2027	2028	2029
			9.5%	9.5%	9.5%	9.5%	5%	5%	5%
Base Inc. 200 cf	17.65		19.33	21.16	23.17	25.37	26.64	27.98	29.37
Per 100/cf	5.95		6.52	7.13	7.81	8.55	8.98	9.43	9.90
Small usage	300	17.65	19.33	21.16	23.17	25.37	26.64	27.98	29.37
	-	5.95	6.52	7.13	7.81	8.55	8.98	9.43	9.90
		23.60	25.84	28.30	30.99	33.93	35.63	37.41	39.28
Medium usage	600	17.65	19.33	21.16	23.17	25.37	26.64	27.98	29.37
		23.80	26.06	28.54	31.25	34.22	35.93	37.72	39.61
	-	41.45	45.39	49.70	54.42	59.59	62.57	65.70	68.98
Large usage	900	17.65	19.33	21.16	23.17	25.37	26.64	27.98	29.37
	_	41.65	45.61	49.94	54.68	59.88	62.87	66.02	69.32
		59.30	64.93	71.10	77.86	85.25	89.52	93.99	98.69
Trash/Sanitation		24.37	24.37	24.37	24.37	24.37	24.37	24.37	24.37
Sewer Option #	1		2023	2024	2025	2026	2027	2028	2029
	Sewer + W	ater + Tras							
Small Usage	300 c.f.	108.63	112.70	118.90	125.56	116.81	118.50	120.28	122.15
Medium Usage	600 c.f.	151.32	157.83	167.42	177.75	166.42	169.40	172.53	175.82
Large Usage	900 c.f.	206.43	215.75	229.51	244.30	228.02	232.28	236.76	241.46

Total Bill Combined

Sewer Option 1
Water Increase
Existing Trash

Sewer Option #	‡1		2023	2024	2025	2026	2027	2028	2029	
TOTAL BILL:	Sewer + Wa	ewer + Water + Trash								
Small Usage	300 c.f.	108.63	112.70	118.90	125.56	116.81	118.50	120.28	122.15	
Medium Usage	600 c.f.	151.32	157.83	167.42	177.75	166.42	169.40	172.53	175.82	
Large Usage	900 c.f.	206.43	215.75	229.51	244.30	228.02	232.28	236.76	241.46	

Total Bill Combined

Sewer Option #1
Water Increase
Existing Trash

	(CURRENT							
WASTEWATER			Option #2	-NO RATE	CHANGE -	STOP EXTR	A PAYMEN	IT	
			2023	2024	2025	2026	2027	2028	2029
	Percent								
	Increase		38.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Base Inc. 300cf	34.96		48.24	48.24	48.24	48.24	48.24	48.24	48.24
Per 100/cf	9.00		12.42	12.42	12.42	12.42	12.42	12.42	12.42
Plant Upgrade	38%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
C II	200	24.00	40.24	40.24	40.24	40.24	40.24	40.24	40.24
Small usage	300	34.96	48.24	48.24 12.42	48.24	48.24	48.24	48.24	48.24 12.42
Per 100/cf Plant Upgrade		9.00 16.70	12.42	-	12.42	12.42	12.42	12.42	12.42
Flant Opgrade	_	60.66	60.66	60.66	60.66	60.66	60.66	60.66	60.66
		00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
Medium usage	600	34.96	48.24	48.24	48.24	48.24	48.24	48.24	48.24
Per 100/cf		27.00	37.26	37.26	37.26	37.26	37.26	37.26	37.26
Plant Upgrade		23.54	-	-	-	-	-	-	-
		85.50	85.50	85.50	85.50	85.50	85.50	85.50	85.50
Large usage	900	34.96	48.24	48.24	48.24	48.24	48.24	48.24	48.24
Per 100/cf		54.00	74.52	74.52	74.52	74.52	74.52	74.52	74.52
Plant Upgrade	_	33.80	-	-	-	-	-	-	-
		122.76	122.76	122.76	122.76	122.76	122.76	122.76	122.76
				_					
WATER			Option #2	2					
	Percent		2022	2024	2025	2026	2027	2020	2020
	Increase		2023	2024	2025	2026	2027	2028	2029
			9.5%	9.5%	9.5%	9.5%	5.0%	5.0%	5.0%
Base Inc. 200 cf	17.65		19.33	21.16	23.17	25.37	26.64	27.98	29.37
Per 100/cf	5.95		6.52	7.13	7.81	8.55	8.98	9.43	9.90
Small usage	300	17.65	19.33	21.16	23.17	25.37	26.64	27.98	29.37
	_	5.95	6.52	7.13	7.81	8.55	8.98	9.43	9.90
		23.60	25.84	28.30	30.99	33.93	35.63	37.41	39.28
								•= 00	• • • •
Medium usage	600	17.65	19.33	21.16	23.17	25.37	26.64	27.98	29.37
	_	23.80	26.06	28.54	31.25	34.22	35.93	37.72	39.61
		41.45	45.39	49.70	54.42	59.59	62.57	65.70	68.98
	000	47.65	10.22	21.16	22.17	25.27	26.64	27.00	20.27
Large usage	900	17.65	19.33	21.16	23.17	25.37	26.64	27.98	29.37
	-	41.65	45.61	49.94	54.68	59.88	62.87	66.02	69.32
		59.30	64.93	71.10	77.86	85.25	89.52	93.99	98.69
Trash/Sanitation		24.37	24.37	24.37	24.37	24.37	24.37	24.37	24.37
Sewer Option #	2	24.57	2023	2024	2025	2026	2027	2028	2029
TOTAL BILL:	Sewer + Wa	ater + Tras							
Small Usage	300 c.f.	108.63	110.88	113.33	116.02	118.96	120.66	122.44	124.31
Medium Usage	600 c.f.	151.32	155.26	159.57	164.30	169.47	172.45	175.57	178.86
Large Usage	900 c.f.	206.43	212.07	218.24	224.99	232.39	236.65	241.13	245.83

Total Bill Combined

Sewer Option 2

Water Increase

Existing Trash

Sewer Option #	2		2023	2024	2025	2026	2027	2028	2029
TOTAL BILL:	Sewer + Water + Trash								
Small Usage	300 c.f.	108.63	110.88	113.33	116.02	118.96	120.66	122.44	124.31
Medium Usage	600 c.f.	151.32	155.26	159.57	164.30	169.47	172.45	175.57	178.86
Large Usage	900 c.f.	206.43	212.07	218.24	224.99	232.39	236.65	241.13	245.83

Total Combined Bill

Sewer Option #2
Increased Water
Existing Trash

WASTEWATER			Option #3 -	SAVE UP	RONT - ST	OP EXTRA F	PAYMENT		
			2023	2024	2025	2026	2027	2028	2029
	Percent		420/	420/	420/	CO.	664	664	
	Increase		12%	12%	12%	6%	6%	6%	6%
Base Inc. 300cf	34.96		39.16	43.85	49.12	52.06	55.19	58.50	62.01
Per 100/cf	9.00		10.08	11.29	12.64	13.40	14.21	15.06	15.96
Plant Upgrade	38%								
Small usage	300	34.96	39.16	43.85	49.12	52.06	55.19	58.50	62.01
Per 100/cf		9.00	10.08	11.29	12.64	13.40	14.21	15.06	15.96
Plant Upgrade	-	16.70	-	-	- 64.76	-	-	- 72.56	-
		60.66	49.24	55.14	61.76	65.47	69.39	73.56	77.97
Medium usage	600	34.96	39.16	43.85	49.12	52.06	55.19	58.50	62.01
Per 100/cf	000	27.00	30.24	33.87	37.93	40.21	42.62	45.18	47.89
Plant Upgrade		23.54	-	-	-	-	-	-	-
типе орыше	-	85.50	69.40	77.72	87.05	92.27	97.81	103.68	109.90
		05.50	031.10	77172	07.00	32.27	37.01	100.00	103.30
Large usage	900	34.96	39.16	43.85	49.12	52.06	55.19	58.50	62.01
Per 100/cf		54.00	60.48	67.74	75.87	80.42	85.24	90.36	95.78
Plant Upgrade		33.80	-	-	-	-	-	-	-
	_	122.76	99.64	111.59	124.98	132.48	140.43	148.86	157.79
WATER			Option #2	2					
	Percent								
	Increase		2023	2024	2025	2026	2027	2028	2029
			9.5%	9.5%	9.5%	9.5%	5.0%	5.0%	5.0%
Base Inc. 200 cf	17.65		19.33	21.16	23.17	25.37	26.64	27.98	29.37
Per 100/cf	5.95		6.52	7.13	7.81	8.55	8.98	9.43	9.90
Small usage	300	17.65	19.33	21.16	23.17	25.37	26.64	27.98	29.37
		5.95	6.52	7.13	7.81	8.55	8.98	9.43	9.90
	_	23.60	25.84	28.30	30.99	33.93	35.63	37.41	39.28
Medium usage	600	17.65	19.33	21.16	23.17	25.37	26.64	27.98	29.37
		23.80	26.06	28.54	31.25	34.22	35.93	37.72	39.61
	_	41.45	45.39	49.70	54.42	59.59	62.57	65.70	68.98
Large usage	900	17.65	19.33	21.16	23.17	25.37	26.64	27.98	29.37
	_	41.65	45.61	49.94	54.68	59.88	62.87	66.02	69.32
		59.30	64.93	71.10	77.86	85.25	89.52	93.99	98.69
		•							
Trash/Sanitation		24.37	24.37	24.37	24.37	24.37	24.37	24.37	24.37
Sewer Option #			2023	2024	2025	2026	2027	2028	2029
TOTAL BILL:	Sewer + Wa								
Small Usage	300 c.f.	108.63	99.45	107.81	117.12	123.77	129.39	135.33	141.62
NA adiana Ula	C00 - f	151.32	139.15	151.79	165.84	176.23	184.75	193.75	202.25
Medium Usage		1513)	120 15	151 /4		17673	1×/L /5	194 /5	203.25
	000 C.1.	131.32	139.13	131.73	103.04	170.23	104.75	133.73	200.25
Large Usage	900 c.f.	206.43	188.94	207.06	227.21	242.10	254.32	267.22	280.85

Total Bill Combined

Sewer Option 3

Water Increase

Existing Trash

Sewer Option #3			2023	2024	2025	2026	2027	2028	2029
TOTAL BILL:	Sewer + Water + Trash								
Small Usage	300 c.f.	108.63	99.45	107.81	117.12	123.77	129.39	135.33	141.62
Medium Usage	600 c.f.	151.32	139.15	151.79	165.84	176.23	184.75	193.75	203.25
Large Usage	900 c.f.	206.43	188.94	207.06	227.21	242.10	254.32	267.22	280.85

Total Combined Bill

Sewer Option #3
Increased Water
Existing Trash

