

BEFORE THE GUAM PUBLIC UTILITIES COMMISSION

IN RE:) GWA Docket 19-08
)
AMENDED PETITION TO APPROVE A)
NEW RATE DESIGN STRUCTURE FOR) **ALJ REPORT**
THE GUAM WATERWORKS)
AUTHORITY AS PROPOSED IN PUC)
GWA DOCKET 19-08)
_____)



INTRODUCTION

This matter comes before the Guam Public Utilities Commission [“PUC”] pursuant to the Amended Petition of the Guam Waterworks Authority [“GWA”] for PUC Review and Approval of GWA’s proposed rate design structure for water and wastewater rates, as properly introduced and on record in PUC GWA Docket 19-08.¹

“Rate Design” is a concept that represents the price signals consumers use to guide their consumption and investment choices for utility services: “Regulators set the prices, known as “rates” in the case of utilities, and thereby affect the consumption through a concept known as rate design or rate structure.”²

“Under a uniform rate design methodology, the price per unit (usually one thousand gallons of water) is constant at every consumption level. That is, the amount billed to a customer is directly proportional to the amount of water consumed plus a fixed charge, discussed below.... Fixed charges are similar to flat rates, but also can be added to volumetric water charges developed via alternative rate design mechanisms. For instance, **a water utility may implement uniform rates plus a fixed charge. As such, there is a baseline charge that the utility recovers from its customers, regardless of their volumetric consumption. This is rational in that a water utility faces some**

¹ GWA Amended Petition, GWA Docket 19-08, dated April 3, 2023.

² Wikipedia, Utility Rate Making, [Utility ratemaking - Wikipedia](#)

fixed costs that do not differ with consumption. It is common for fixed charges to include a set amount of water, often defined as the base usage.”³

In the GWA existing rate design, there is a “general recognition” that non-residential customer class rates subsidize residential customers: “GWA’s proposed rate design is guided by the notion that the existing residential vs. non-residential split should largely be preserved in this extra ordinary time due to continuing financial stresses imposed by the pandemic. For that reason, GWA’s proposed rate design “declines to ask residential users to assume a larger share of the overall cost burden...[although] GWA does recognize that the moderation of the extensive inter-system subsidy of sewer users by water system customers may be initiated.”⁴

BACKGROUND

The issues of rate design now before the Commission were raised by GWA in 2022 during the Phase II rate proceedings. However, apparently no consensus was reached between GWA and the PUC Consultant on rate design issues, and the Administrative Law Judge [“ALJ”] did not address the issues on the merits. The ALJ recommended that the new rate design structure be reviewed “at a later time.”⁵ In its Rate Decision, the PUC adopted the recommendation of the ALJ that the rate design issues be reviewed “at a later time.”⁶

³ Premier Quantitative Consulting Inc., An Introduction to Water Utility Rate Design Methodologies: Options and Considerations, [Water-Rate-Design-Primer.pdf \(premierquant.com\)](#)

⁴ In Re: Petition for Approval of GWA’s Third 5-Year Financial Plan, GWA Docket No. 19-08, TESTIMONY OF MIGUEL C. BORDALLO IN SUPPORT OF GWA’S UPDATED FINANCIAL PLAN AND RATE APPLICATION SCHEDULES IN SUPPORT OF A COMPREHENSIVE REVIEW AND UPDATE OF GWA’S 5-YEAR FINANCIAL PLAN, Exhibit 6B at pgs. 11-12.

⁵ Findings of Fact and Conclusions of Law for Phase 2 Proceedings, GWA Docket 19-08, dated May 16, 2022, at pgs. 14-15, September 22, 2022, at p. 35.

⁶ Rate Decision, GWA Docket 19-08, dated September 22, 2022, at p. 34.

GWA filed the instant Amended Petition to Approve a Rate Design Structure for GWA on April 3, 2023. At that time GWA only requested approval of the rate design structure but presented no applicable rates or tariffs. GWA then stated that it would implement the structure to reflect revenue requirements for FY2024.⁷ However, on May 4, 2023, GWA requested that “the implementation of an approved rate design structure be deferred until FY2025.”⁸ GWA indicated that it did not wish to have the rate design issues addressed in the FY2024 True-Up proceedings (which were concluded by PUC Decision on December 19, 2023).

On December 5, 2023, the ALJ requested the assistance of PUC Consultant Concentric Energy Advisors concerning GWA’s request for the approval of a new Rate Design Structure.⁹ On February 20, 2024, Concentric Energy Advisors submitted its Report entitled “Evaluation of Guam Waterwork’s Authority Rate Design Proposals”¹⁰ to the ALJ. A copy of the CEA Report has been provided to the Commissioners. In addition, the Commissioners received an electronic copy of GWA’s “Rate Information for the ALJ Final vFinal,” which includes spreadsheets demonstrating the Rate Impact of GWA’s Rate Design Proposals upon all the classes of GWA customers. GWA provided this information in response to Requests for Information during the discovery process.

All monetary rates indicated in the CEA Report and this ALJ Report for the proposed rate design changes and the resulting water and wastewater bills are based upon FY2024 rates. However, the bill impact upon customer classes of such rates may change if the rate design proposals are implemented in FY2025 or thereafter.

⁷ GWA Amended Petition, GWA Docket 19-08, dated April 3, 2023, at pgs. 4-5.

⁸ Letter from GWA GM Miguel Bordallo to PUC ALJ Fred Horecky, dated May 4, 2023.

⁹ Email from PUC ALJ Fred Horecky to CEA President Ruben Moreno, dated December 5, 2023.

¹⁰Concentric Energy Advisors, Evaluation of Guam Waterworks Authority’s Rate Design Proposals, dated February 20, 2024, at p. 4 (hereinafter referred to as the “CEA Report”).

PROPOSED CHANGES IN THE GWA RATE DESIGN STRUCTURE

In its Amended Petition, GWA requests implementation of various changes to its current Rate Design.

A. The current Water Rate Base Charge Structure is unchanged.

GWA's proposed Rate Design does not alter the current monthly Base Charges for water, which are based upon meter size for all rate classes.¹¹ The current Base Charge for all classes of ratepayers are dependent upon their meter sizes, which range from $\frac{3}{4}$ inch to 12 inch.¹² The current monthly base charges by meter size are equal across all rate classes except for Agriculture.¹³

B. Replacement of a Two-Tier Volumetric Charge System with a Three-Tier Volumetric Charge System for the Water Rate Structure for Residential Customers.

At present there is a Two-Tier Volumetric Water Charge System for Residential customers. Monthly usage under 5kGals is billed at \$3.51/kGal. Usage over 5kGals is billed monthly at \$14.58/kGal. GWA proposes to add an additional block to the Tier system and change the break points associated with the blocks.¹⁴ Under the proposed Three-Tier System, monthly usage at or under 3/kGals would be billed at \$3.50/kGal. Monthly usage between 3kGals to 10kGals will

¹¹ Id. at p. 6.

¹² Id.

¹³ Id.

¹⁴ Id.

be billed at \$7.50 (instead of \$14.58 at present to consumption above 5kGals).

Usage over 10kGals will be billed at \$15.00/kGal.¹⁵

C. Increase in Water Volumetric Charges for Commercial Classes.

Under the proposed new Rate Design, water charges for Commercial, Hotel, and Government classes would be increased from a flat fee of \$18.12 for all kGals to a flat fee of \$18.49 for all kGals.¹⁶

D. Wastewater Rate Structure

1. Change in Residential Monthly Base Charges from fixed to based upon meter size.

For residential customers, there is currently a fixed monthly base charge irrespective of meter size. All residential customers, whether their meter size is ¾ inch or 12 inch, pay a monthly wastewater base charge of \$32.14.

GWA is proposing to establish a fixed monthly base charge for residential customers based upon the size of the meter as opposed to the current fixed charge irrespective of the meter size.¹⁷ Under GWA's proposal, fixed monthly wastewater base charges for the residential class will change from the current universal charge of \$32.14, regardless of meter size, to a charge based upon meter size.¹⁸ Residents having meters ¾ inch up to 2 inch will pay monthly charges of \$12.00 up to \$27.99, all less than the current monthly charge of \$32.14.¹⁹ For

¹⁵ Id at p. 7.

¹⁶ Id.

¹⁷ Id.

¹⁸ Id.

¹⁹ Id.

residential residents with meter size from 3 inch up to 12 inch will pay between \$49.99 up to \$309.85 respectively.²⁰

2. Implementation of fixed monthly base charges for Non-Residential Classes.

On the other hand, the non-residential classes are not charged any fixed base monthly charge at the present time.²¹

Under GWA's proposal, non-residential classes (Commercial, Hotels, and Government) will pay the same monthly wastewater base charges as Residential customers, based upon their meter size. For the first time, the non-residential classes of customers would have a monthly wastewater base charge in addition to the volumetric charge presently charged.²²

3. Implementation of Volumetric Wastewater Charges for Residential Customers and slight increase in Volumetric Wastewater Charge for Non-Residential Customers.

Residential wastewater customers do not presently have a wastewater volumetric charge. For the residential class, a volumetric charge of \$4.75/kGal will be introduced. The monthly volumetric charge Wastewater rates will be slightly increased for all Commercial, Hotel, and Government classes. For example, for Commercial 1, the current rate of \$9.99 will be increased to \$10.31/kGal . For Hotels, the volumetric rate will be increased from \$24.34 to

²⁰ Id. at pgs. 7-8

²¹ Id. at p.7.

²² Id at pgs. 7-8.

\$25.13/kGal . The Government volumetric rate will be increased from \$14.28 up to \$14.74/kGal .²³

**THE CEA REPORT APPROVES IMPLEMENTATION OF
THE GWA PROPOSED RATE DESIGN STRUCTURE**

The CEA Report contains a detailed description of the rate design changes proposed by GWA and a rate evaluation. CEA determined that “GWA’s proposed changes to the rate structure are reasonable, based on cost causation, and generally send appropriate price signals to customers. Specifically, the proposal to reduce the inter-system subsidies, the proposal to introduce an additional block for residential water service, the proposal to introduce volumetric charge and meter sized based fees for residential wastewater customers are all reasonable.”²⁴

At present, the water system subsidizes the wastewater system by over-recovering approximately 6.9% more than the water rate revenue requirement. The wastewater system rate revenues collected are 15% less than needed for the wastewater revenue requirement.²⁵ The revenue allocation approach proposed by GWA “attempts to move more costs from the water system to the wastewater system such that the resulting rates reduce the inter-system subsidy and move the two systems closer to their cost of service.”²⁶ The proposed rate design would collect about \$2.0 million less in water revenues from the residential class as compared to the water revenues generated from the current rates. “Revenues collected from all other non-residential classes and

²³ Id at p.8.

²⁴ Id. at p.4.

²⁵ GWA Final Report, Analytical Study #3, Cost of Service Analysis, p. xiv (May 15, 2021).

²⁶ Concentric Energy Advisors, Evaluation of Guam Waterworks Authority’s Rate Design Proposals, dated February 20, 2024, at p. 4.

wastewater revenues collected from all classes are larger by about \$2.0 million as compared to the revenues collected from the current rates.”²⁷

CEA believes that the introduction of a Three-Block Volumetric Water Charge for the Residential class is reasonable from a conservation and cost causation standpoint. The change sends the proper price signals to encourage conservation of water resources and shifts the cost-of-service responsibility to the higher usage customers.²⁸ The reduction of the first block from 5kGals to 3kGals also reduces the volume of water that is subsidized for residential ratepayers. It is in line with the cost-of-service principles that ratepayers should pay for their actual cost of service. CEA points out that “the introduction of the 3,000-gallon lifeline block provides relief to the lower usage customers.”²⁹

The non-residential water rate design is mostly unchanged. Non-residential customers continue to pay the same meter size based fixed charge and a flat volumetric rate.³⁰ The non-residential monthly fixed base charge was not modified. The volumetric water rates were increased marginally across the board. CEA believes that the non-residential rate design is reasonable and “properly assigns cost of service to all classes.”³¹

For Wastewater Rates, GWA proposes a meter-based monthly fixed charge for residential customers instead of the current flat monthly charge irrespective of the meter size. It is a reasonable structural change from the current rate where customers pay a fixed monthly fee irrespective of the amount of wastewater they generate. Customers will then have a greater incentive to conserve water. For the non-residential customers, GWA also proposes to introduce a meter-based monthly fixed charge: “With

²⁷ Id.

²⁸ Id at p. 7.

²⁹ Id. at p. 9.

³⁰ Id.

³¹ Id.

this change, the monthly fixed wastewater charge will be structured similarly to the monthly fixed water charge....Concentric believes that this a reasonable structural change for both the residential and non-residential customers. For residential customers, differentiating the monthly fixed charge by meter size assigns more cost responsibility to the customers with larger meters. This is reasonable given the fact that larger meter sizes impose a larger ‘readiness to serve’ cost on GWA.”³² The introduction of meter-based monthly fixed charges for wastewater services for the non-residential customers is reasonable since large meter sizes impose larger costs on GWA.³³

The introduction of a flat volumetric charge for residential wastewater services is a reasonable structural change from the current rate where customers pay a fixed monthly fee irrespective of the amount of wastewater they generate. Residential customers will pay a monthly volumetric charge of \$4.75/kGal. ³⁴Volumetric charges for customers will provide a greater incentive to conserve water.³⁵ Those customers who generate more wastewater will pay more than the customers who generate less.³⁶ There is a slight increase for the wastewater volumetric charges for the non-residential customers. The change is reasonable “given that it will continue to provide incentive to conserve water and generate less wastewater.”³⁷

BILL IMPACTS

Both CEA and GWA have produced a substantial amount of information concerning the impact of these structural rate design changes upon GWA ratepayers.

³² Id at p. 10.

³³ Id.

³⁴ Id. at p. 8.

³⁵ Id.

³⁶ Id.

³⁷ Id.

The ALJ recommends that the Commissioners carefully review the tables presented by CEA and the schedules submitted by GWA.

A. The CEA Report

Of note is CEA Table 6, $\frac{3}{4}$ inch Residential Water and Wastewater Customers – Bill Impacts.³⁸ The majority of residential water and wastewater customers fall into the $\frac{3}{4}$ meter size.³⁹ The impact of the water and wastewater rate design changes is that most of these residential customers will have a decrease in their overall bill. For all usage by $\frac{3}{4}$ residential customers between 1.5 kGals and 4.9 kgals, the combined effect will be to reduce customer bills by between 21% and 2% (depending on the level of usage). Only customers who utilize 5.8 kGals and 8.6 kGals will have bill increases of 5% and 6% respectively. Even higher users of 7.6 kGals and 11.6kGals will have bill reductions.⁴⁰

For 1 inch meter residential customers, most will experience reductions in bills resulting from the water and wastewater design changes. Only such residential customers with monthly average usage of 11.6k Gals and above will experience a substantial increase (14%).⁴¹ Residential customers with 1.5-inch meter size will pay higher fees, particularly at the higher usage levels. The higher usage water customers should pay more. The rate design provides a conservation incentive for these users to conserve water.⁴²

³⁸ Id. at p. 11.

³⁹ Id.

⁴⁰ Id.

⁴¹ Id.

⁴² Id.

For residential water-only customers, most customers will either receive small increases in bills or decreases. The great majority of 1 inch and 1.5-inch residential water customers will also receive decreases in bills.⁴³

CEA has analyzed the bill impacts upon commercial (levels 1, 2, and 3) in Tables 10, 11, 12, and 13.⁴⁴ For the commercial class, the main change to the rate design structure is the introduction of a fixed monthly charge based on meter size. Assigning a fixed monthly charge based on meter size “is consistent with cost-of-service principles.”⁴⁵ However, Concentrics’s bill impact analysis has found that “the lower usage customers could experience significantly higher bill increases compared to the current rates. This is primarily driven by the introduction of fixed monthly charge for wastewater.”⁴⁶

All the commercial customers will experience increases in their bills because of the introduction of the fixed monthly charge. The increases for low volume users are significant. The ALJ asked CEA Consultant Bickey Rimal if GWA’s introduction of a fixed monthly charge for commercial customers was consistent with water utility practice in the United States. He indicated that many utilities do have both fixed monthly charges and volumetric charges for water and wastewater customers. The Premier Quantitative Consulting Inc. Article cited at pg. 1 of this ALJ Report indicates that a water utility may implement uniform rates plus a fixed charge. As such, there is a baseline charge that the utility recovers from its customers, regardless of their volumetric consumption. This is

⁴³ Id. at p. 14, Table 8

⁴⁴ Id. at pgs. 15-18.

⁴⁵ Id. at p.15.

⁴⁶ Id.

rational in that a water utility faces fixed costs that do not differ with consumption.

With the hotel class, CEA finds that customers generally experience a moderate bill impact except for the very small users, who will see a big increase.⁴⁷ For the government customers, as with the commercial class, the smaller usage customers will experience a higher percentage increase due to the introduction of the fixed monthly charge.⁴⁸

B. GWA Schedules

GWA has also presented certain schedules indicating the overall bill impact on the various customer classes from the proposed rate design changes. During the discovery process in this proceeding, GWA submitted to the ALJ various spreadsheets demonstrating bill impact from the rate design changes titled “Rate Design Information for ALJ vFinal.” The relevant schedules from said filing are attached hereto collectively as Exhibit “A”. They include: Rate Design Module, Bill Impact Comparisons for Residential Customers, Commercial-1 Customers, Commercial-2 Customers, Commercial-3 Customers, Hotel Customers, Government Customers, Agricultural Customers and Irrigation Customers. For all classes of customers, these spreadsheets indicate the percentage and dollar amount bill impacts upon all customers which result from the rate design changes.⁴⁹

⁴⁷ Id. at p. 19-20, Tables 14 and 15.

⁴⁸ Id. at pgs. 20-23, Tables 16 and 17.

⁴⁹ Rate Design Information for ALJ vFinal, provided by GWA in docket proceedings. An electronic copy of this filing will also be provided to the PUC Commissioners.

The “estimated average bill impact” for all customer classes from the proposed rate design changes are as follows:

	FY 2024 Rate Design							
Estimated average bill impact:	RES	COM-1	COM-2	COM-3	HOT	GOV	AG	IRR
	-1.675%	4.879%	4.725%	4.090%	2.956%	3.406%	1.134%	1.186%

Overall, residential ratepayers will have a reduced bill impact. An increase occurs for the Commercial, Hotel, and Government classes resulting from the addition of a monthly base charge to those classes for wastewater services.

Most residential ratepayers will see no increase in their monthly water bills from the rate design changes. There is an exception for residential customers who utilize from 4 to 5kGals per month. These increases result from the new Three-Tier system, which will increase the cost of water above 3kGals (from 4-5kGals). 39,633 out of 40,139 residential customers in FY2023 had ¾ inch water meters. For most of these customers, they will experience no increase in their water bill rates and will have reduced billings on their combined water and wastewater bills. Residential customers using greater amounts of water monthly more than 5kGals per month and from 13kGals and above may experience increases.

For FY2023, the 24,370 out of 24,629 residential customers for wastewater had ¾ inch water meters. For all three Commercial classes, the percentage increases in water bills are not significant. However, there are more substantial increases from the impact of the rate design changes in the wastewater bill. For the

combined water and wastewater bills, commercial customers will see increases resulting from the implementation of a monthly base rate charge.

GWA assumes that the increase of commercial rates for wastewater is based upon the need to reduce the intersystem subsidy between the water and wastewater systems. Commercial, Hotel, and Government customers, with implementation of the rate design changes, will be paying closer to their cost of service for the wastewater services provided. CEA has approved this change.

Because of the rate impact of the rate design changes upon low usage residential, commercial, hotel and government classes, CEA recommends that GWA phase in the initial base fixed monthly wastewater charge to minimize the impact to the lower usage wastewater customers.

CONCLUSION

The ALJ recommends that the PUC approve the rate design change to reduce the inter-system subsidy between the water and wastewater systems and move the two systems closer to their cost of service. The introduction of a Third-Tier to residential usage, to reduce the first-tier threshold to 3,000 gallons for residential water service, is reasonable. It encourages conservation and reduces the subsidy from the current 5,000 gallons. Introduction of a volumetric charge for residential wastewater customers increases the incentive to conserve water and will lead to a reduction in wastewater.

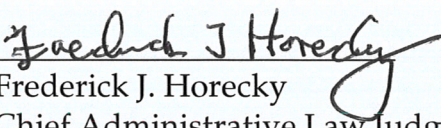
The proposal to change residential wastewater charges to meter-size based, instead of a fixed monthly charge irrespective of the meter size, is reasonable; larger meter sizes impose larger “readiness to serve” costs on GWA and are justified by cost causation.

The implementation of a fixed monthly base charge for non-residential wastewater customers, based on meter size, is also reasonable from a cost causation standpoint.

At this time the PUC should approve the proposed rate design changes in principle only. GWA has very recently indicated that it does not intend to implement these rate design changes for FY2025 and not until FY2026 at the earliest.⁵⁰ Before these rate design principles are embedded in rates, the PUC must understand the applicable rates to which these principles are being applied. After the PUC determines new rates for FY2025, 2026 and FY2027 under the pending five-year rate case (presumably in September 2024), it will be in a better position to determine when the new rate design structure should be implemented and whether there should be a phase-in of such implementation. These matters may be further considered by the PUC after the adoption of rates in the pending five-year rate case. As proposed by CEA, there may well be a need to phase in the base fixed monthly wastewater charge to minimize the impact to the lower usage wastewater customers and other customers.

A proposed order is submitted for the consideration of the Commissioners.

Respectfully submitted this 26th day of February, 2024.


Frederick J. Horecky
Chief Administrative Law Judge

⁵⁰ Phone Conference between GWA Legal Counsel Theresa Rojas and PUC ALJ Fred Horecky on February 23, 2024.

Water Accounts by Meter Size and Class

Based on analysis of actual billed revenues from monthly billing files

	Historical Data										CAGR	INPUT	Growth %
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023							
Water Accounts by Meter Size by Class (average monthly billed accounts)													
Residential													
3/4 inch	37,476	38,609	38,861	39,386	39,445	39,663	1.29%	0.63%					
1 inch	317	325	318	321	316	314	-0.12%	0.00%					
1.5 inch	98	101	100	103	103	97	1.13%	0.00%					
2 inch	27	28	26	26	23	24	-3.68%	0.00%					
3 inch	7	8	8	8	8	8	3.39%	0.00%					
4 inch	15	15	16	16	18	19	4.78%	0.00%					
6 inch	10	9	9	9	10	12	0.82%	0.00%					
8 inch	1	1	1	1	2	2	15.02%	0.00%					
10 inch	-	-	-	-	-	-	-	0.00%					
Customer Class subtotal	37,951	39,096	39,439	39,869	39,924	40,139	1.28%	0.00%					
Commercial 1 (plus sub-types)													
3/4 inch	1,554	1,533	1,533	1,546	1,573	1,624	0.30%	0.00%					
1 inch	288	282	287	287	285	286	-0.28%	0.00%					
1.5 inch	286	287	289	292	293	292	0.62%	0.00%					
2 inch	136	134	135	139	140	143	0.77%	0.00%					
3 inch	24	23	23	23	23	23	-1.60%	0.00%					
4 inch	45	44	40	44	45	47	-0.23%	0.00%					
6 inch	28	26	26	28	28	27	-0.15%	0.00%					
8 inch	3	3	3	2	1	1	-18.35%	0.00%					
10 inch	-	-	-	-	-	-	-	0.00%					
Customer Class subtotal	2,366	2,334	2,338	2,363	2,389	2,445	0.24%	0.00%					
Commercial 2 (minus hotels)													
3/4 inch	-	-	-	1	2	2	0.00%	0.00%					
1 inch	-	1	2	2	3	4	3.30%	0.00%					
1.5 inch	3	3	3	4	4	4	0.00%	0.00%					
2 inch	4	4	4	4	4	4	0.00%	0.00%					
3 inch	2	2	2	2	2	2	0.00%	0.00%					
4 inch	3	3	4	4	4	4	4.54%	0.00%					
6 inch	2	2	2	2	2	2	0.00%	0.00%					
8 inch	2	2	2	2	2	2	0.00%	0.00%					
10 inch	-	-	-	-	-	-	-	0.00%					
Customer Class subtotal	16	17	19	20	20	22	5.63%	0.00%					
Commercial 3													
3/4 inch	170	170	171	166	168	167	-0.33%	0.00%					
1 inch	32	32	33	32	30	31	-1.26%	0.00%					
1.5 inch	42	42	41	41	42	42	0.15%	0.00%					
2 inch	23	24	24	25	25	25	2.36%	0.00%					
3 inch	6	6	6	6	6	6	0.00%	0.00%					
4 inch	8	8	8	7	8	8	-0.79%	0.00%					
6 inch	3	3	3	3	3	3	0.00%	0.00%					
8 inch	-	-	-	-	-	-	-	0.00%					
10 inch	-	-	-	-	-	-	-	0.00%					
Customer Class subtotal	284	285	286	279	282	281	-0.14%	0.00%					
Hotels													
3/4 inch	1	1	1	2	2	2	18.92%	0.00%					
1 inch	2	2	1	1	1	1	-15.91%	0.00%					
1.5 inch	2	2	2	2	2	2	0.00%	0.00%					
2 inch	7	7	7	7	7	7	0.30%	0.00%					
3 inch	4	4	4	4	4	4	0.00%	0.00%					
4 inch	18	18	19	19	19	19	1.25%	0.00%					
6 inch	16	16	14	15	15	14	-2.01%	0.00%					
8 inch	6	6	4	5	4	4	-9.64%	0.00%					
10 inch	1	1	1	1	1	1	0.00%	0.00%					
Customer Class subtotal	57	57	53	56	55	55	-1.00%	0.00%					

	Forecasted Results					
	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Residential						
3/4 inch	39,913	40,165	40,418	40,672	40,929	41,186
1 inch	314	314	314	314	314	314
1.5 inch	97	97	97	97	97	97
2 inch	24	24	24	24	24	24
3 inch	8	8	8	8	8	8
4 inch	19	19	19	19	19	19
6 inch	12	12	12	12	12	12
8 inch	2	2	2	2	2	2
10 inch	-	-	-	-	-	-
Customer Class subtotal	40,139	40,389	40,641	40,894	41,148	41,405
Commercial 1 (plus sub-types)						
3/4 inch	1,624	1,624	1,624	1,624	1,624	1,624
1 inch	286	286	286	286	286	286
1.5 inch	292	292	292	292	292	292
2 inch	143	143	143	143	143	143
3 inch	23	23	23	23	23	23
4 inch	47	47	47	47	47	47
6 inch	27	27	27	27	27	27
8 inch	1	1	1	1	1	1
10 inch	2	2	2	2	2	2
Customer Class subtotal	2,445	2,445	2,445	2,445	2,445	2,445
Commercial 2 (minus hotels)						
3/4 inch	22	22	22	22	22	22
1 inch	4	4	4	4	4	4
1.5 inch	4	4	4	4	4	4
2 inch	4	4	4	4	4	4
3 inch	2	2	2	2	2	2
4 inch	4	4	4	4	4	4
6 inch	2	2	2	2	2	2
8 inch	2	2	2	2	2	2
10 inch	-	-	-	-	-	-
Customer Class subtotal	22	22	22	22	22	22
Commercial 3						
3/4 inch	167	167	167	167	167	167
1 inch	31	31	31	31	31	31
1.5 inch	42	42	42	42	42	42
2 inch	25	25	25	25	25	25
3 inch	6	6	6	6	6	6
4 inch	8	8	8	8	8	8
6 inch	3	3	3	3	3	3
8 inch	-	-	-	-	-	-
10 inch	-	-	-	-	-	-
Customer Class subtotal	282	282	282	282	282	282
Hotels						
3/4 inch	2	2	2	2	2	2
1 inch	1	1	1	1	1	1
1.5 inch	2	2	2	2	2	2
2 inch	7	7	7	7	7	7
3 inch	4	4	4	4	4	4
4 inch	19	19	19	19	19	19
6 inch	14	14	14	14	14	14
8 inch	4	4	4	4	4	4
10 inch	1	1	1	1	1	1
Customer Class subtotal	54	54	54	54	54	54

Government														
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023		FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	
3/4 inch	123	116	117	159	161	128	6.99%	126	126	126	126	126	126	126
1 inch	34	35	36	45	46	37	7.55%	37	37	37	37	37	37	37
1.5 inch	70	70	70	78	78	71	2.59%	71	71	71	71	71	71	71
2 inch	36	37	38	52	53	46	10.20%	46	46	46	46	46	46	46
3 inch	32	32	31	33	33	31	0.39%	31	31	31	31	31	31	31
4 inch	25	25	26	29	28	27	2.87%	27	27	27	27	27	27	27
6 inch	13	13	13	14	16	15	5.46%	15	15	15	15	15	15	15
8 inch	3	3	4	5	5	4	13.52%	4	4	4	4	4	4	4
10 inch	2	2	2	3	3	2	10.57%	2	2	2	2	2	2	2
12 inch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Customer Class Subtotal	338	333	337	419	422	360	5.73%	359	359	359	359	359	359	359
Airport														
3/4 inch	10	10	10	-	-	-	-100.00%	-	-	-	-	-	-	-
1 inch	2	2	2	-	-	-	-100.00%	-	-	-	-	-	-	-
1.5 inch	4	4	4	-	-	-	-100.00%	-	-	-	-	-	-	-
2 inch	10	10	10	-	-	-	-100.00%	-	-	-	-	-	-	-
3 inch	1	1	1	-	-	-	-100.00%	-	-	-	-	-	-	-
4 inch	4	4	4	-	-	-	-100.00%	-	-	-	-	-	-	-
6 inch	3	3	3	-	-	-	-100.00%	-	-	-	-	-	-	-
8 inch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 inch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 inch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Customer Class Subtotal	34	34	34	-	-	-	-100.00%	-	-	-	-	-	-	-
Agriculture														
3/4 inch	265	259	258	260	265	261	0.03%	261	261	261	261	261	261	261
1 inch	38	37	37	36	34	34	-2.86%	34	34	34	34	34	34	34
1.5 inch	22	22	22	23	23	23	1.48%	23	23	23	23	23	23	23
2 inch	11	10	9	9	7	7	-9.38%	7	7	7	7	7	7	7
3 inch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4 inch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 inch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 inch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 inch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 inch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Customer Class Subtotal	336	328	326	328	330	325	-0.46%	325	325	325	325	325	325	325
Irrigation														
3/4 inch	14	14	14	14	15	15	0.89%	15	15	15	15	15	15	15
1 inch	6	5	5	6	6	6	0.00%	6	6	6	6	6	6	6
1.5 inch	2	2	4	5	5	5	25.74%	5	5	5	5	5	5	5
2 inch	6	6	6	7	7	7	3.93%	7	7	7	7	7	7	7
3 inch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4 inch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 inch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 inch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 inch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 inch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Customer Class Subtotal	28	27	29	32	33	33	3.80%	33	33	33	33	33	33	33
System-Wide Total by Customer Class														
Residential 1+	37,951	39,096	39,439	39,869	39,924	40,139	1.28%	40,389	40,641	40,894	41,148	41,405	41,652	41,905
Commercial 1+	2,366	2,334	2,338	2,363	2,363	2,445	2.44%	2,445	2,445	2,445	2,445	2,445	2,445	2,445
Commercial 2-	16	17	19	20	20	22	5.63%	22	22	22	22	22	22	22
Commercial 3	284	285	286	279	282	281	-0.14%	282	282	282	282	282	282	282
Hotels	57	57	53	56	55	54	-1.00%	54	54	54	54	54	54	54
Government	338	333	337	419	422	360	5.73%	359	359	359	359	359	359	359
Airport	34	34	34	-	-	-	-	-	-	-	-	-	-	-
Agriculture	336	328	326	328	330	325	-0.46%	325	325	325	325	325	325	325
Irrigation	28	27	29	32	33	33	3.80%	33	33	33	33	33	33	33
System Total	41,410	42,511	42,861	43,366	43,455	43,660	1.21%	43,909	44,161	44,414	44,668	44,925	45,182	45,439
System-Wide Total by Meter Size														
3/4 inch	39,613	40,712	41,065	41,534	41,630	41,860	1.25%	42,110	42,362	42,615	42,869	43,126	43,383	43,640
1 inch	719	721	721	730	719	711	-0.02%	711	711	711	711	711	711	711
1.5 inch	529	533	535	547	550	535	0.96%	536	536	536	536	536	536	536
2 inch	260	280	269	288	287	264	0.71%	263	263	263	263	263	263	263
3 inch	76	76	75	76	75	74	-0.33%	74	74	74	74	74	74	74
4 inch	118	117	117	119	121	124	0.61%	124	124	124	124	124	124	124
6 inch	75	72	70	71	74	74	-0.34%	73	73	73	73	73	73	73
8 inch	15	15	14	15	14	13	-1.56%	13	13	13	13	13	13	13
10 inch	5	5	5	6	6	5	4.66%	5	5	5	5	5	5	5
12 inch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
System Total	41,410	42,511	42,861	43,366	43,455	43,660	1.21%	43,909	44,161	44,414	44,668	44,925	45,182	45,439
Increase: 0.57% 0.57% 0.57% 0.57% 0.58% 0.57%														

Wastewater Accounts by Meter Size and Class
Based on analysis of actual billed revenues from monthly billing files

	Historical Data						CAGR	Growth %
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023		
Wastewater Accounts by Meter Size by Class (average monthly billed accounts)								
Residential								
3/4 inch	23,128	23,768	23,986	24,284	24,273	24,370	1.22%	0.61%
1 inch	146	150	148	148	148	145	0.36%	0.00%
1.5 inch	57	58	57	59	62	57	2.12%	0.00%
2 inch	19	20	20	20	22	21	3.34%	0.00%
3 inch	6	7	8	8	9	8	9.10%	0.00%
4 inch	13	13	14	14	16	16	4.78%	0.00%
6 inch	9	8	8	8	9	10	-1.18%	0.00%
8 inch	1	1	1	1	2	2	16.36%	0.00%
10 inch	-	-	-	-	-	-	-	0.00%
Customer Class Subtotal	23,379	24,025	24,242	24,521	24,539	24,629	1.22%	0.61%
Commercial 1 (plus sub-types)								
3/4 inch	206	206	211	1,249	1,288	1,310	57.52%	0.50%
1 inch	222	222	224	211	209	209	-1.51%	0.00%
1.5 inch	92	92	94	224	225	224	25.10%	0.00%
2 inch	20	20	19	93	95	98	47.43%	0.00%
3 inch	32	32	32	20	20	20	-11.65%	0.00%
4 inch	17	17	17	32	32	33	16.90%	0.00%
6 inch	2	2	2	17	17	16	70.75%	0.00%
8 inch	1	1	1	2	2	1	7.46%	0.00%
10 inch	-	-	-	-	-	-	-	0.00%
Customer Class Subtotal	592	592	600	1,849	1,868	1,912	33.28%	0.00%
Commercial 2 (minus hotels)								
3/4 inch	-	-	-	-	-	-	-24.02%	0.00%
1 inch	4	4	4	3	3	4	-3.86%	0.00%
1.5 inch	4	4	4	4	4	4	18.92%	0.00%
2 inch	3	2	2	2	2	2	-9.64%	0.00%
3 inch	2	3	2	4	4	4	15.69%	0.00%
4 inch	2	2	2	2	2	2	0.00%	0.00%
6 inch	2	2	2	2	2	2	0.00%	0.00%
8 inch	-	-	-	-	-	-	-	0.00%
10 inch	-	-	-	-	-	-	-	0.00%
Customer Class Subtotal	16	16	17	18	18	19	2.99%	0.00%
Commercial 3								
3/4 inch	168	167	167	161	163	161	-0.74%	0.00%
1 inch	30	30	31	30	28	29	-1.42%	0.00%
1.5 inch	40	40	39	39	40	40	0.16%	0.00%
2 inch	23	24	24	25	25	25	2.19%	0.00%
3 inch	6	6	6	6	6	6	0.00%	0.00%
4 inch	8	8	8	7	8	8	-0.79%	0.00%
6 inch	2	2	2	2	2	2	0.00%	0.00%
8 inch	-	-	-	-	-	-	-	0.00%
10 inch	-	-	-	-	-	-	-	0.00%
Customer Class Subtotal	277	277	277	270	273	270	-0.41%	0.00%
Hotels								
3/4 inch	1	1	1	1	1	1	2.02%	0.00%
1 inch	2	2	2	2	2	2	-15.91%	0.00%
1.5 inch	2	2	2	2	2	2	0.00%	0.00%
2 inch	7	7	7	7	7	7	0.00%	0.00%
3 inch	3	4	4	4	4	4	7.46%	0.00%
4 inch	17	17	18	18	18	18	1.32%	0.00%
6 inch	15	15	14	14	14	13	-2.15%	0.00%
8 inch	6	6	5	5	4	4	-9.64%	0.00%
10 inch	-	-	-	-	-	-	-	0.00%
Customer Class Subtotal	53	54	52	52	51	51	-1.06%	0.00%

	Forecast Results					
	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Forecast Results						
Apply escalation to forecast basis to estimate current year?						
Yes						
3/4 inch	24,518	24,668	24,819	24,970	25,122	25,275
1 inch	145	145	145	145	145	145
1.5 inch	57	57	57	57	57	57
2 inch	21	21	21	21	21	21
3 inch	8	8	8	8	8	8
4 inch	16	16	16	16	16	16
6 inch	10	10	10	10	10	10
8 inch	2	2	2	2	2	2
10 inch	-	-	-	-	-	-
Customer Class Subtotal	24,777	24,927	25,078	25,229	25,381	25,534
Commercial 1 (plus sub-types)						
3/4 inch	1,316	1,323	1,330	1,336	1,343	1,350
1 inch	209	209	209	209	209	209
1.5 inch	224	224	224	224	224	224
2 inch	98	98	98	98	98	98
3 inch	20	20	20	20	20	20
4 inch	33	33	33	33	33	33
6 inch	16	16	16	16	16	16
8 inch	1	1	1	1	1	1
10 inch	-	-	-	-	-	-
Customer Class Subtotal	1,918	1,925	1,932	1,938	1,945	1,952
Commercial 2 (minus hotels)						
3/4 inch	-	-	-	-	-	-
1 inch	4	4	4	4	4	4
1.5 inch	4	4	4	4	4	4
2 inch	4	4	4	4	4	4
3 inch	2	2	2	2	2	2
4 inch	4	4	4	4	4	4
6 inch	2	2	2	2	2	2
8 inch	-	-	-	-	-	-
10 inch	-	-	-	-	-	-
Customer Class Subtotal	19	19	19	19	19	19
Commercial 3						
3/4 inch	161	161	161	161	161	161
1 inch	29	29	29	29	29	29
1.5 inch	40	40	40	40	40	40
2 inch	25	25	25	25	25	25
3 inch	6	6	6	6	6	6
4 inch	8	8	8	8	8	8
6 inch	2	2	2	2	2	2
8 inch	-	-	-	-	-	-
10 inch	-	-	-	-	-	-
Customer Class Subtotal	271	271	271	271	271	271
Hotels						
3/4 inch	1	1	1	1	1	1
1 inch	1	1	1	1	1	1
1.5 inch	2	2	2	2	2	2
2 inch	7	7	7	7	7	7
3 inch	4	4	4	4	4	4
4 inch	18	18	18	18	18	18
6 inch	13	13	13	13	13	13
8 inch	4	4	4	4	4	4
10 inch	-	-	-	-	-	-
Customer Class Subtotal	50	50	50	50	50	50

Government

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023		
3/4 inch	72	72	72	77	79	75	2.24%	0.00%
1 inch	29	29	30	31	32	29	2.09%	0.00%
1.5 inch	50	50	50	50	50	49	-0.08%	0.00%
2 inch	36	36	38	39	39	38	2.29%	0.00%
3 inch	30	30	29	30	30	28	-0.42%	0.00%
4 inch	23	23	24	25	24	25	1.33%	0.00%
6 inch	11	11	11	12	14	13	6.21%	0.00%
8 inch	3	3	4	4	4	4	7.46%	0.00%
10 inch	2	2	2	2	2	2	0.00%	0.00%
12 inch	-	-	-	-	-	-	-	0.00%
Customer Class Subtotal	256	256	260	271	273	264	1.64%	0.00%

Allport

3/4 inch	2	2	2	-	-	-	-100.00%	0.00%
1 inch	1	1	1	-	-	-	-100.00%	0.00%
1.5 inch	-	-	-	-	-	-	-	0.00%
2 inch	1	1	1	-	-	-	-100.00%	0.00%
3 inch	1	1	1	-	-	-	-100.00%	0.00%
4 inch	1	1	1	-	-	-	-100.00%	0.00%
6 inch	1	1	1	-	-	-	-100.00%	0.00%
8 inch	-	-	-	-	-	-	-	0.00%
10 inch	-	-	-	-	-	-	-	0.00%
12 inch	-	-	-	-	-	-	-	0.00%
Customer Class Subtotal	7	7	7	-	-	-	-100.00%	0.00%

System-Wide Total by Customer Class

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023		
Residential	23,379	24,025	24,242	24,521	24,539	24,629	1.22%	
Commercial 1+	592	592	600	1,849	1,868	1,912	33.28%	
Commercial 2-	16	16	17	18	18	19	2.99%	
Commercial 3	277	277	277	270	273	270	-0.41%	
Hotels	53	54	52	52	51	51	-1.08%	
Government	256	256	260	271	273	264	1.64%	
Allport	7	7	7	-	-	-	-	
System Total	24,580	25,227	25,455	26,981	27,021	27,144	2.40%	

System-Wide Total by Meter Size

3/4 inch	23,577	24,216	24,439	25,752	25,784	25,917	2.26%	
1 inch	433	437	438	422	419	414	-0.82%	
1.5 inch	245	246	246	377	383	375	11.80%	
2 inch	108	110	111	188	192	193	15.42%	
3 inch	81	83	84	70	70	68	-3.76%	
4 inch	81	81	84	100	101	105	5.65%	
6 inch	42	41	40	55	57	57	8.09%	
8 inch	11	11	11	14	13	13	4.60%	
10 inch	2	2	2	3	3	3	10.67%	
12 inch	-	-	-	-	-	-	-	
System Total	24,580	25,227	25,455	26,981	27,021	27,144	2.40%	

75	75	75	75	75	75	75		
29	29	29	29	29	29	29		
49	49	49	49	49	49	49		
38	38	38	38	38	38	38		
28	28	28	28	28	28	28		
25	25	25	25	25	25	25		
13	13	13	13	13	13	13		
4	4	4	4	4	4	4		
2	2	2	2	2	2	2		
263	263	263	263	263	263	263		

24,632	24,777	24,927	25,078	25,229	25,381	25,534		
1,912	1,918	1,925	1,932	1,938	1,945	1,952		
19	19	19	19	19	19	19		
270	271	271	271	271	271	271		
51	50	50	50	50	50	50		
264	263	263	263	263	263	263		
27,144	27,288	27,435	27,613	27,770	27,929	28,089		

25,917	26,071	26,228	26,386	26,543	26,702	26,862		
414	414	414	414	414	414	414		
375	376	376	376	376	376	376		
193	193	193	193	193	193	193		
68	68	68	68	68	68	68		
104	104	104	104	104	104	104		
57	56	56	56	56	56	56		
13	13	13	13	13	13	13		
3	3	3	3	3	3	3		
27,144	27,298	27,455	27,613	27,770	27,929	28,089		

Increase:

0.57%	0.58%	0.58%	0.57%	0.57%	0.57%	0.57%		
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Rate Design Module

Forecasts FY 2024 revenues based on proposed rate design inputs

FY 2024 Rate Design									
	RES	COM-1	COM-2	COM-3	HOT	GOV	AG	IRR	Leachate
Estimated average bill impact:	-1.675%	4.879%	4.725%	4.090%	2.956%	3.406%	0.000%	1.134%	1.186%
Estimated elasticity impacts:	0.000%	-0.282%	-0.259%	-0.163%	0.000%	-0.061%	0.000%	0.000%	NA
Water Charge by Meter Size									
Percentage Increase	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Input Nominal 3/4 Inch Charge	\$ 30.62	\$ 30.62	\$ 30.62	\$ 30.62	\$ 30.62	\$ 30.62	\$ 30.62	\$ 29.58	\$ 30.62
3/4 inch, based on %									
1 inch	35.73	35.73	35.73	35.73	35.73	35.73	35.73	34.52	35.73
1.5 inch	56.06	56.06	56.06	56.06	56.06	56.06	56.06	54.18	56.06
2 inch	71.41	71.41	71.41	71.41	71.41	71.41	71.41	69.00	71.41
3 inch	127.55	127.55	127.55	127.55	127.55	127.55	127.55	123.26	127.55
4 inch	178.55	178.55	178.55	178.55	178.55	178.55	178.55	172.51	178.55
6 inch	331.57	331.57	331.57	331.57	331.57	331.57	331.57	320.36	331.57
8 inch	484.59	484.59	484.59	484.59	484.59	484.59	484.59	468.20	484.59
10 inch	663.15	663.15	663.15	663.15	663.15	663.15	663.15	640.72	663.15
12 inch	790.63	790.63	790.63	790.63	790.63	790.63	790.63	763.88	790.63
Tiered Rate Thresholds									
Tier 2 (kgals)	3	above	above	above	above	above	above	above	above
Tier 3 (kgals)	10	above	above	above	above	above	above	above	above
Volumetric Rates by Rate Block									
Tier 1	3.50	18.49	18.49	18.49	18.49	18.49	18.49	18.49	6.15
Tier 2	7.50	-	-	-	-	-	-	-	-
Tier 3	15.00	-	-	-	-	-	-	-	-
Water Demand by Rate Block									
Tier 1 %									
Tier 1 %	34.6%								
Tier 2 %									
Tier 2 %	38.8%								
Tier 3 %									
Tier 3 %	26.6%								
Demand Subtotal %									
Demand Subtotal %	100.0%								
Tier 1 (kgals)									
Tier 1 (kgals)	1,118,466	635,651	70,466	129,416	589,680	536,346	-	43,427	4,118
Tier 2 (kgals)									
Tier 2 (kgals)	1,253,555								
Tier 3 (kgals)									
Tier 3 (kgals)	861,199								
Demand Subtotal (kgals)									
Demand Subtotal (kgals)	3,233,220	635,651	70,466	129,416	589,680	536,346	-	43,427	4,118

Estimated Water Revenues									
Base charge	\$ 14,998,414	\$ 1,303,387	\$ 38,930	\$ 162,592	\$ 142,261	\$ 353,500	\$ -	\$ 127,478	\$ 17,446
Tier 1	3,914,631	11,753,189	1,302,918	2,392,905	10,903,183	9,917,038	-	257,953	25,328
Tier 2	9,401,660	-	-	-	-	-	-	-	-
Tier 3	12,917,992	-	-	-	-	-	-	-	-
Water Rate Revenue Subtotal	\$ 41,232,697	\$ 13,056,576	\$ 1,341,848	\$ 2,555,497	\$ 11,045,444	\$ 10,270,538	\$ -	\$ 385,432	\$ 42,774
<i>Model calibration adjustment</i>	<i>-1.50%</i>	<i>-1.50%</i>	<i>-1.50%</i>	<i>-1.50%</i>	<i>-1.50%</i>	<i>-1.50%</i>	<i>-1.50%</i>	<i>-1.50%</i>	<i>-1.50%</i>
Estimated Water Revenues	\$ 40,614,207	\$ 12,860,727	\$ 1,321,721	\$ 2,517,164	\$ 10,879,763	\$ 10,116,480	\$ -	\$ 379,650	\$ 42,133
Baseline revenues by class (current rates)	\$ 42,691,693	\$ 12,802,153	\$ 1,313,802	\$ 2,503,851	\$ 10,811,022	\$ 10,056,982	\$ -	\$ 379,650	\$ 42,176
Difference	\$ (2,077,486)	\$ 58,574	\$ 7,918	\$ 13,313	\$ 68,741	\$ 59,498	\$ -	\$ 0	\$ (43)
Wastewater Charge by Meter Size									
Existing Base Charge	\$ 32.14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Input Nominal 3/4 Inch Charge	\$ 12.00	\$ 12.00	\$ 12.00	\$ 12.00	\$ 12.00	\$ 12.00	\$ 12.00	\$ 12.00	\$ 12.00
3/4 inch, nominal input	\$ 12.00	\$ 12.00	\$ 12.00	\$ 12.00	\$ 12.00	\$ 12.00	\$ 12.00	\$ 12.00	\$ 12.00
1 inch	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
1.5 inch	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
2 inch	27.99	27.99	27.99	27.99	27.99	27.99	27.99	27.99	27.99
3 inch	49.99	49.99	49.99	49.99	49.99	49.99	49.99	49.99	49.99
4 inch	69.97	69.97	69.97	69.97	69.97	69.97	69.97	69.97	69.97
6 inch	129.94	129.94	129.94	129.94	129.94	129.94	129.94	129.94	129.94
8 inch	189.91	189.91	189.91	189.91	189.91	189.91	189.91	189.91	189.91
10 inch	259.89	259.89	259.89	259.89	259.89	259.89	259.89	259.89	259.89
12 inch	309.85	309.85	309.85	309.85	309.85	309.85	309.85	309.85	309.85
Wastewater Volumetric Rate	\$ 4.75	\$ 10.31	\$ 25.13	\$ 34.85	\$ 25.13	\$ 14.74	\$ 14.74	\$ 14.74	\$ 15.20
<i>Wastewater Rate</i>	<i>3.25%</i>								
Forecasted Wastewater Flows									
Billed Flows as % of Water Demand	80.0%	61.5%	79.7%	77.3%	68.0%	76.2%	76.2%	76.2%	NA
Billable Wastewater Flows (kgals)	1,586,759	390,925	56,187	100,039	400,761	408,816	-	-	35,823
Estimated Wastewater Revenues									
Base charge	\$ 4,156,137	\$ 386,639	\$ 14,801	\$ 60,434	\$ 50,090	\$ 114,765	\$ -	\$ -	\$ 544,512
Volumetric Rate	7,537,104	4,030,441	1,411,985	3,486,348	10,071,129	6,025,941	-	-	544,512
Wastewater Rate Revenue Subtotal	\$ 11,693,241	\$ 4,417,081	\$ 1,426,786	\$ 3,546,782	\$ 10,121,219	\$ 6,140,707	\$ -	\$ -	\$ 544,512
<i>Model calibration adjustment</i>	<i>-1.50%</i>	<i>-1.50%</i>	<i>-1.50%</i>	<i>-1.50%</i>	<i>-1.50%</i>	<i>-1.50%</i>	<i>-1.50%</i>	<i>-1.50%</i>	<i>-1.50%</i>
Estimated WW Revenues by Class	\$ 11,517,842	\$ 4,380,824	\$ 1,405,384	\$ 3,493,580	\$ 9,969,400	\$ 6,048,596	\$ -	\$ -	\$ 544,512
Baseline revenues by class (current rates)	\$ 10,987,715	\$ 3,899,487	\$ 1,365,546	\$ 3,371,241	\$ 9,739,896	\$ 5,829,129	\$ -	\$ -	\$ 527,317
Difference	\$ 530,127	\$ 451,337	\$ 39,838	\$ 122,339	\$ 229,505	\$ 219,467	\$ -	\$ -	\$ 17,195

Estimated Rate Revenues by Class	\$ 52,132,049	\$ 17,211,552	\$ 2,727,105	\$ 6,010,745	\$ 20,849,163	\$ 16,165,076	\$ -	\$ 379,650	\$ 42,183	\$ 544,512
Combined W&WW Revenue Target	\$ 53,679,408	\$ 16,701,640	\$ 2,679,348	\$ 5,875,093	\$ 20,550,918	\$ 15,886,111	\$ -	\$ 379,650	\$ 42,176	\$ 527,317
Difference	\$ (1,547,359)	\$ 509,912	\$ 47,757	\$ 135,652	\$ 298,245	\$ 278,965	\$ -	\$ 0	\$ (43)	\$ 17,195

Bills above tier 1 threshold	323,689
Bills above tier 2 threshold	88,350
Demand entirely in tier 1	186,407
Demand entirely in tier 3	1,774,738
Tier 1 (kgals)	1,157,474
Tier 2 (kgals)	1,297,274
Tier 3 (kgals)	891,235
Historical Demand Subtotal (kgals)	3,345,982

Bill Impact Comparison, Residential Customers
 Comparison of existing FY 2024 bill to FY 2024 bill under proposed rate design at various demand levels

3/4 Inch	Current Water Bill (monthly)					Rate Design Water Bill (monthly)					Percent Water Bill Change	Current Wastewater Bill (monthly)					Rate Design Wastewater Bill (monthly)					Percent WW Bill Change	Combined Bill			
	Water Use (kgals)	Base Charges	Volumetric Charges	3.8% Surcharge	Current Water Bill	Base Charges	Volumetric Charges	3.8% Surcharge	Rate Design Water Bill	Water Bill		Base Charges	Volumetric Charges	3.8% Surcharge	Current WW Bill	Base Charges	Volumetric Charges	3.8% Surcharge	Rate Design WW Bill	Current CHARGES	Rate Design CHARGES		W&WW Bill Change			
0	\$30.62	\$0.00	\$1.16	\$31.78	\$30.62	\$0.00	\$1.16	\$31.78	0.0%	\$32.14	\$0.00	\$0.00	\$32.14	\$12.00	\$0.00	\$0.46	\$12.46	\$63.92	\$44.24	-30.8%						
1	\$30.62	\$3.51	\$1.16	\$35.29	\$30.62	\$3.50	\$1.30	\$35.42	0.4%	\$32.14	\$0.00	\$0.00	\$32.14	\$12.00	\$3.80	\$0.60	\$16.40	\$67.43	\$51.82	-23.1%						
2	\$30.62	\$7.02	\$1.16	\$38.80	\$30.62	\$7.00	\$1.43	\$39.05	0.6%	\$32.14	\$0.00	\$0.00	\$32.14	\$12.00	\$7.60	\$0.74	\$20.34	\$70.94	\$59.39	-16.3%						
3	\$30.62	\$10.53	\$1.16	\$42.31	\$30.62	\$10.50	\$1.56	\$42.68	0.9%	\$32.14	\$0.00	\$0.00	\$32.14	\$12.00	\$11.40	\$0.89	\$24.29	\$74.45	\$66.97	-10.0%						
4	\$30.62	\$14.04	\$1.16	\$45.82	\$30.62	\$18.00	\$1.85	\$50.47	10.1%	\$32.14	\$0.00	\$0.00	\$32.14	\$12.00	\$15.20	\$1.03	\$28.23	\$77.96	\$78.70	0.9%						
5	\$30.62	\$17.55	\$1.16	\$49.33	\$30.62	\$25.50	\$2.13	\$68.25	18.1%	\$32.14	\$0.00	\$0.00	\$32.14	\$12.00	\$19.00	\$1.18	\$32.18	\$81.47	\$90.43	11.0%						
6	\$30.62	\$21.06	\$1.72	\$53.40	\$30.62	\$33.00	\$2.42	\$86.04	2.4%	\$32.14	\$0.00	\$0.00	\$32.14	\$12.00	\$22.80	\$1.32	\$36.12	\$86.61	\$102.16	5.7%						
7	\$30.62	\$24.57	\$2.27	\$57.41	\$30.62	\$40.50	\$2.70	\$97.82	-7.3%	\$32.14	\$0.00	\$0.00	\$32.14	\$12.00	\$26.60	\$1.47	\$40.07	\$111.74	\$113.89	1.9%						
8	\$30.62	\$28.08	\$2.83	\$61.59	\$30.62	\$48.00	\$2.99	\$111.61	-13.9%	\$32.14	\$0.00	\$0.00	\$32.14	\$12.00	\$30.40	\$1.61	\$44.01	\$126.88	\$128.62	-1.0%						
9	\$30.62	\$31.59	\$3.38	\$65.65	\$30.62	\$55.50	\$3.27	\$99.39	-18.6%	\$32.14	\$0.00	\$0.00	\$32.14	\$12.00	\$34.20	\$1.76	\$47.96	\$142.01	\$137.35	-3.3%						
10	\$30.62	\$35.10	\$3.93	\$69.72	\$30.62	\$78.00	\$3.56	\$97.18	-22.3%	\$32.14	\$0.00	\$0.00	\$32.14	\$12.00	\$38.00	\$1.90	\$51.90	\$157.14	\$149.08	-5.1%						
11	\$30.62	\$38.61	\$4.49	\$73.79	\$30.62	\$93.00	\$4.13	\$112.75	-19.5%	\$32.14	\$0.00	\$0.00	\$32.14	\$12.00	\$41.80	\$2.04	\$55.84	\$172.28	\$168.59	-2.1%						
12	\$30.62	\$42.12	\$5.04	\$78.28	\$30.62	\$108.00	\$4.70	\$128.32	-17.4%	\$32.14	\$0.00	\$0.00	\$32.14	\$12.00	\$45.60	\$2.19	\$59.79	\$187.41	\$188.11	0.4%						
13	\$30.62	\$45.63	\$5.60	\$81.86	\$30.62	\$123.00	\$5.27	\$143.89	-15.6%	\$32.14	\$0.00	\$0.00	\$32.14	\$12.00	\$49.40	\$2.33	\$63.73	\$202.55	\$207.62	2.5%						
14	\$30.62	\$49.14	\$6.15	\$85.93	\$30.62	\$138.00	\$5.84	\$159.46	-14.1%	\$32.14	\$0.00	\$0.00	\$32.14	\$12.00	\$53.20	\$2.48	\$67.68	\$217.68	\$227.14	4.3%						
15	\$30.62	\$52.65	\$6.70	\$90.00	\$30.62	\$153.00	\$6.41	\$175.03	-12.8%	\$32.14	\$0.00	\$0.00	\$32.14	\$12.00	\$57.00	\$2.62	\$71.62	\$232.81	\$246.65	5.9%						
20	\$30.62	\$163.35	\$9.47	\$276.34	\$30.62	\$213.00	\$9.26	\$252.88	-8.5%	\$32.14	\$0.00	\$0.00	\$32.14	\$12.00	\$76.00	\$3.34	\$91.34	\$308.48	\$344.22	11.6%						
30	\$30.62	\$382.05	\$15.01	\$427.68	\$30.62	\$383.00	\$14.96	\$408.58	-4.5%	\$32.14	\$0.00	\$0.00	\$32.14	\$12.00	\$114.00	\$4.79	\$130.79	\$459.82	\$538.37	17.3%						

Bill Impact Comparison, Commercial-1 Customers
 Comparison of existing FY 2024 bill to FY 2024 bill under proposed rate design at various demand levels

Water Use (kgals)	Current Water Bill (monthly)				Rate Design Water Bill (monthly)				Percent Water Bill Change	Sewer (kgals)	Current Wastewater Bill (monthly)				Rate Design Wastewater Bill (monthly)				Percent WW Bill Change	Combined Bill				W&WW Bill Change
	Base Charges	Volumetric Charges	3.8% Surcharge	Current Water Bill	Base Charges	Volumetric Charges	3.8% Surcharge	Rate Design Water Bill			Base Charges	Volumetric Charges	3.8% Surcharge	Current WW Bill	Base Charges	Volumetric Charges	3.8% Surcharge	Rate Design WW Bill		Current CHARGES	Rate Design CHARGES			
Customers with 3/4" meter																								
5	\$30.62	\$90.60	\$4.61	\$125.83	\$30.62	\$92.45	\$4.68	\$127.75	1.53%	4.0	\$0.00	\$39.96	\$1.52	\$41.48	\$12.00	\$41.24	\$2.02	\$55.26	33.23%	\$167.30	\$183.01	9.59%		
10	\$30.62	\$181.20	\$8.05	\$219.87	\$30.62	\$184.90	\$8.19	\$223.71	1.75%	8.0	\$0.00	\$79.92	\$3.04	\$82.96	\$12.00	\$82.48	\$3.59	\$98.07	18.22%	\$302.83	\$321.78	6.26%		
15	\$30.62	\$271.80	\$11.49	\$313.91	\$30.62	\$277.35	\$11.70	\$319.67	1.84%	12.0	\$0.00	\$119.88	\$4.56	\$124.44	\$12.00	\$123.72	\$5.16	\$140.88	13.21%	\$436.35	\$460.55	5.05%		
20	\$30.62	\$362.40	\$14.93	\$407.95	\$30.62	\$369.80	\$15.22	\$415.64	1.88%	16.0	\$0.00	\$159.84	\$6.07	\$165.91	\$12.00	\$164.56	\$6.72	\$183.68	10.71%	\$573.87	\$599.32	4.43%		
25	\$30.62	\$453.00	\$18.38	\$502.00	\$30.62	\$462.25	\$18.73	\$511.60	1.91%	20.0	\$0.00	\$199.80	\$7.59	\$207.39	\$12.00	\$206.20	\$8.29	\$226.49	9.21%	\$709.39	\$738.09	4.05%		
30	\$30.62	\$543.60	\$21.82	\$596.04	\$30.62	\$554.70	\$22.24	\$607.56	1.93%	24.0	\$0.00	\$239.76	\$9.11	\$248.87	\$12.00	\$247.44	\$9.66	\$269.30	8.21%	\$844.91	\$876.86	3.78%		
50	\$30.62	\$906.00	\$35.59	\$972.21	\$30.62	\$924.50	\$36.29	\$991.41	1.98%	40.0	\$0.00	\$399.60	\$15.18	\$414.78	\$12.00	\$412.40	\$16.13	\$440.53	6.21%	\$1,387.00	\$1,431.94	3.24%		
100	\$30.62	\$1,812.00	\$70.02	\$1,912.64	\$30.62	\$1,849.00	\$71.43	\$1,951.05	2.01%	80.0	\$0.00	\$799.20	\$30.37	\$829.57	\$12.00	\$824.80	\$31.80	\$868.60	4.70%	\$2,742.21	\$2,819.64	2.82%		
Customers with 1.5" meter																								
10	\$56.06	\$181.20	\$9.02	\$246.28	\$56.06	\$184.90	\$9.16	\$250.12	1.56%	8.0	\$0.00	\$79.92	\$3.04	\$82.96	\$21.97	\$82.48	\$3.97	\$108.42	30.69%	\$329.23	\$358.54	8.90%		
20	\$56.06	\$362.40	\$16.90	\$434.36	\$56.06	\$369.80	\$16.18	\$442.04	1.77%	16.0	\$0.00	\$159.84	\$6.07	\$165.91	\$21.97	\$164.96	\$7.10	\$194.03	16.95%	\$606.28	\$636.08	5.66%		
30	\$56.06	\$543.60	\$22.79	\$622.45	\$56.06	\$554.70	\$23.21	\$633.97	1.85%	24.0	\$0.00	\$239.76	\$9.11	\$248.87	\$21.97	\$247.44	\$10.24	\$279.65	12.37%	\$871.32	\$913.62	4.85%		
40	\$56.06	\$724.80	\$29.67	\$810.53	\$56.06	\$739.60	\$30.24	\$826.90	1.90%	32.0	\$0.00	\$319.68	\$12.15	\$331.83	\$21.97	\$329.92	\$13.37	\$365.26	10.09%	\$1,142.36	\$1,191.16	4.27%		
50	\$56.06	\$906.00	\$36.56	\$998.62	\$56.06	\$924.50	\$37.26	\$1,017.82	1.92%	40.0	\$0.00	\$399.60	\$15.18	\$414.78	\$21.97	\$412.40	\$16.51	\$450.88	8.70%	\$1,413.40	\$1,468.70	3.91%		
100	\$56.06	\$1,812.00	\$70.99	\$1,939.05	\$56.06	\$1,849.00	\$72.39	\$1,977.45	1.98%	80.0	\$0.00	\$799.20	\$30.37	\$829.57	\$21.97	\$824.80	\$32.18	\$878.95	5.95%	\$2,768.62	\$2,856.40	3.17%		
150	\$56.06	\$2,718.00	\$105.41	\$2,879.47	\$56.06	\$2,773.50	\$107.52	\$2,937.08	2.00%	120.0	\$0.00	#####	\$45.55	\$1,244.35	\$21.97	#####	\$47.85	\$1,307.02	5.04%	\$4,123.83	\$4,244.10	2.92%		
200	\$56.06	\$3,624.00	\$139.84	\$3,819.90	\$56.06	\$3,698.00	\$142.65	\$3,896.71	2.01%	160.0	\$0.00	#####	\$60.74	\$1,659.14	\$21.97	#####	\$63.52	\$1,735.09	4.58%	\$5,479.04	\$5,631.80	2.79%		

Bill Impact Comparison, Commercial-2 Customers
 Comparison of existing FY 2024 bill to FY 2024 bill under proposed rate design at various demand levels

Water Use (kgals)	Current Water Bill (monthly)				Rate Design Water Bill (monthly)				Percent Water Bill Change	80%	Current Wastewater Bill (monthly)				Rate Design Wastewater Bill (monthly)				Percent WW Bill Change	Combined Bill		W&WW Bill Change
	Base Charges	Volume Charge	3.8% Surcharge	Current Water Bill	Base Charges	Volume Charge	3.8% Surcharge	Rate Design Water Bill			Base Charges	Volume Charge	3.8% Surcharge	Current WW Bill	Base Charges	Volume Charge	3.8% Surcharge	Rate Design WW Bill		Current CHARGES	Rate Design CHARGES	
5	\$30.62	\$90.60	\$4.61	\$125.83	\$30.62	\$92.45	\$4.68	\$127.75	1.53%	4.0	\$0.00	\$97.36	\$3.70	\$101.06	\$12.00	\$100.52	\$4.28	\$116.80	15.57%	\$226.89	\$244.54	7.78%
10	\$30.62	\$181.20	\$8.05	\$219.87	\$30.62	\$184.90	\$8.19	\$223.71	1.75%	8.0	\$0.00	\$194.72	\$7.40	\$202.12	\$12.00	\$201.04	\$8.10	\$221.14	9.41%	\$421.99	\$444.85	5.42%
15	\$30.62	\$271.80	\$11.49	\$313.91	\$30.62	\$277.35	\$11.70	\$319.67	1.84%	12.0	\$0.00	\$292.08	\$11.10	\$303.18	\$12.00	\$301.56	\$11.92	\$325.48	7.35%	\$617.09	\$645.15	4.55%
20	\$30.62	\$362.40	\$14.93	\$407.95	\$30.62	\$369.80	\$15.22	\$415.64	1.88%	16.0	\$0.00	\$389.44	\$14.80	\$404.24	\$12.00	\$402.08	\$15.74	\$429.82	6.33%	\$812.19	\$845.45	4.10%
25	\$30.62	\$453.00	\$18.38	\$502.00	\$30.62	\$462.25	\$18.73	\$511.60	1.91%	20.0	\$0.00	\$486.80	\$18.50	\$505.30	\$12.00	\$502.60	\$19.55	\$534.15	5.71%	\$1,007.30	\$1,045.75	3.82%
30	\$30.62	\$543.60	\$21.82	\$596.04	\$30.62	\$554.70	\$22.24	\$607.56	1.93%	24.0	\$0.00	\$584.16	\$22.20	\$606.36	\$12.00	\$603.12	\$23.37	\$638.49	5.30%	\$1,202.40	\$1,246.06	3.63%
50	\$30.62	\$906.00	\$35.59	\$972.21	\$30.62	\$924.50	\$36.29	\$991.41	1.98%	40.0	\$0.00	\$973.60	\$37.00	\$1,010.60	\$12.00	\$1,005.20	\$38.65	\$1,055.85	4.48%	\$1,982.81	\$2,047.27	3.25%
100	\$30.62	\$1,812.00	\$70.02	\$1,912.64	\$30.62	\$1,849.00	\$71.43	\$1,951.05	2.01%	80.0	\$0.00	\$1,947.20	\$73.99	\$2,021.19	\$12.00	\$2,010.40	\$78.85	\$2,089.25	3.66%	\$3,933.83	\$4,050.30	2.96%
Customers with 2" meter																						
10	\$71.41	\$181.20	\$9.60	\$262.21	\$71.41	\$184.90	\$9.74	\$266.05	1.46%	8.0	\$0.00	\$194.72	\$7.40	\$202.12	\$27.99	\$201.04	\$8.70	\$237.73	17.62%	\$464.33	\$503.78	8.50%
15	\$71.41	\$271.80	\$13.04	\$362.25	\$71.41	\$277.35	\$13.25	\$362.01	1.62%	12.0	\$0.00	\$292.08	\$11.10	\$303.18	\$27.99	\$301.56	\$12.52	\$342.07	12.83%	\$659.43	\$704.09	6.77%
20	\$71.41	\$362.40	\$16.48	\$450.29	\$71.41	\$369.80	\$16.77	\$457.98	1.71%	16.0	\$0.00	\$389.44	\$14.80	\$404.24	\$27.99	\$402.08	\$16.34	\$446.41	10.43%	\$854.53	\$904.39	5.83%
25	\$71.41	\$453.00	\$19.93	\$543.34	\$71.41	\$462.25	\$20.28	\$553.94	1.76%	20.0	\$0.00	\$486.80	\$18.50	\$505.30	\$27.99	\$502.60	\$20.16	\$550.75	9.00%	\$1,049.64	\$1,104.69	5.24%
30	\$71.41	\$543.60	\$23.37	\$638.38	\$71.41	\$554.70	\$23.79	\$649.90	1.80%	24.0	\$0.00	\$584.16	\$22.20	\$606.36	\$27.99	\$603.12	\$23.98	\$655.09	8.04%	\$1,244.74	\$1,304.99	4.84%
50	\$71.41	\$906.00	\$37.14	\$1,014.55	\$71.41	\$924.50	\$37.84	\$1,033.75	1.89%	40.0	\$0.00	\$973.60	\$37.00	\$1,010.60	\$27.99	\$1,005.20	\$39.26	\$1,072.45	6.12%	\$2,025.15	\$2,106.21	4.00%
100	\$71.41	\$1,812.00	\$71.57	\$1,954.98	\$71.41	\$1,849.00	\$72.98	\$1,993.39	1.96%	80.0	\$0.00	\$1,947.20	\$73.99	\$2,021.19	\$27.99	\$2,010.40	\$77.46	\$2,115.85	4.68%	\$3,976.17	\$4,109.23	3.35%
200	\$71.41	\$3,624.00	\$140.43	\$3,835.84	\$71.41	\$3,698.00	\$143.24	\$3,912.65	2.00%	160.0	\$0.00	\$3,894.40	\$147.99	\$4,042.39	\$27.99	\$4,020.80	\$153.85	\$4,202.64	3.66%	\$7,878.22	\$8,115.29	3.01%
300	\$71.41	\$5,436.00	\$209.28	\$5,716.69	\$71.41	\$5,547.00	\$213.50	\$5,831.91	2.02%	240.0	\$0.00	\$5,841.60	\$221.98	\$6,063.58	\$27.99	\$6,031.20	\$230.25	\$6,289.44	3.72%	\$11,760.27	\$12,121.35	2.90%
500	\$71.41	\$9,060.00	\$346.99	\$9,478.40	\$71.41	\$9,245.00	\$354.02	\$9,670.43	2.03%	400.0	\$0.00	\$9,736.00	\$369.97	\$10,105.97	\$27.99	#####	\$383.04	\$10,463.03	3.53%	\$19,584.37	\$20,133.46	2.80%

Bill Impact Comparison, Commercial-3 Customers

Comparison of existing FY 2024 bill to FY 2024 bill under proposed rate design at various demand levels

Water Use (kgals)	Current Water Bill (monthly)				Rate Design Water Bill (monthly)				Percent Water Bill Change	Sewer (kgals)	Current Wastewater Bill (monthly)				Rate Design Wastewater Bill (monthly)				Percent WW Bill Change	Combined Bill		W&WW Bill Change		
	Base Charges	Volumeic Charges	3.8% Surcharge	Current Water Bill	Base Charges	Volumeic Charges	3.8% Surcharge	Rate Design Water Bill			Base Charges	Volumeic Charges	3.8% Surcharge	Current WW Bill	Base Charges	Volumeic Charges	3.8% Surcharge	Rate Design WW Bill		Current CHARGES	Rate Design CHARGES			
Customers with 3/4" meter																								
5	\$30.62	\$90.60	\$4.61	\$125.83	\$30.62	\$92.45	\$4.68	\$127.75	1.53%	4.0	\$0.00	\$135.00	\$5.13	\$140.13	\$12.00	\$139.40	\$5.75	\$157.15	12.15%	\$	\$265.96	\$	\$284.90	7.12%
10	\$30.62	\$181.20	\$8.05	\$219.87	\$30.62	\$184.90	\$8.19	\$223.71	1.75%	8.0	\$0.00	\$270.00	\$10.26	\$280.26	\$12.00	\$278.80	\$11.05	\$301.85	7.70%	\$	\$500.13	\$	\$526.56	5.08%
15	\$30.62	\$271.80	\$11.49	\$313.91	\$30.62	\$277.35	\$11.70	\$319.67	1.84%	12.0	\$0.00	\$405.00	\$15.39	\$420.39	\$12.00	\$418.20	\$16.35	\$446.55	6.22%	\$	\$734.30	\$	\$766.22	4.35%
20	\$30.62	\$362.40	\$14.93	\$407.95	\$30.62	\$369.80	\$15.22	\$415.64	1.88%	16.0	\$0.00	\$540.00	\$20.52	\$560.52	\$12.00	\$557.80	\$21.64	\$591.24	5.48%	\$	\$988.47	\$	\$1,006.88	3.97%
25	\$30.62	\$453.00	\$18.38	\$502.00	\$30.62	\$462.25	\$18.73	\$511.60	1.91%	20.0	\$0.00	\$675.00	\$25.65	\$700.65	\$12.00	\$697.00	\$26.94	\$735.94	5.04%	\$	\$1,202.65	\$	\$1,247.54	3.73%
30	\$30.62	\$543.60	\$21.82	\$596.04	\$30.62	\$554.70	\$22.24	\$607.56	1.93%	24.0	\$0.00	\$810.00	\$30.78	\$840.78	\$12.00	\$836.40	\$32.24	\$880.64	4.74%	\$	\$1,436.82	\$	\$1,488.20	3.58%
50	\$30.62	\$906.00	\$35.59	\$972.21	\$30.62	\$924.50	\$36.29	\$991.41	1.98%	40.0	\$0.00	\$1,350.00	\$51.30	\$1,401.30	\$12.00	\$1,394.00	\$53.43	\$1,459.43	4.15%	\$	\$2,373.51	\$	\$2,450.84	3.25%
100	\$30.62	\$1,812.00	\$70.02	\$1,912.64	\$30.62	\$1,848.00	\$71.43	\$1,981.05	2.01%	80.0	\$0.00	\$2,700.00	\$102.60	\$2,802.60	\$12.00	\$2,788.00	\$106.40	\$2,906.40	3.70%	\$	\$4,715.24	\$	\$4,857.45	3.02%
Customers with 1.5" meter																								
10	\$56.06	\$181.20	\$9.02	\$246.28	\$56.06	\$184.90	\$9.16	\$250.12	1.58%	8.0	\$0.00	\$270.00	\$10.26	\$280.26	\$21.97	\$278.80	\$11.43	\$312.20	11.40%	\$	\$526.54	\$	\$562.32	6.80%
20	\$56.06	\$362.40	\$15.90	\$434.36	\$56.06	\$369.80	\$16.18	\$442.04	1.77%	16.0	\$0.00	\$540.00	\$20.52	\$560.52	\$21.97	\$557.60	\$22.02	\$601.59	7.33%	\$	\$994.88	\$	\$1,043.64	4.90%
30	\$56.06	\$543.60	\$22.79	\$622.45	\$56.06	\$554.70	\$23.21	\$633.97	1.85%	24.0	\$0.00	\$810.00	\$30.78	\$840.78	\$21.97	\$836.40	\$32.62	\$890.99	5.97%	\$	\$1,463.23	\$	\$1,524.96	4.22%
40	\$56.06	\$724.80	\$29.67	\$810.53	\$56.06	\$739.60	\$30.24	\$825.90	1.90%	32.0	\$0.00	\$1,080.00	\$41.04	\$1,121.04	\$21.97	\$1,115.20	\$43.21	\$1,180.38	5.29%	\$	\$1,931.57	\$	\$2,006.28	3.87%
50	\$56.06	\$906.00	\$36.56	\$988.62	\$56.06	\$924.50	\$37.26	\$1,017.82	1.92%	40.0	\$0.00	\$1,350.00	\$51.30	\$1,401.30	\$21.97	\$1,394.00	\$53.81	\$1,468.78	4.89%	\$	\$2,399.92	\$	\$2,487.60	3.65%
100	\$56.06	\$1,812.00	\$70.99	\$1,939.05	\$56.06	\$1,849.00	\$72.39	\$1,977.45	1.98%	80.0	\$0.00	\$2,700.00	\$102.60	\$2,802.60	\$21.97	\$2,788.00	\$106.78	\$2,916.75	4.07%	\$	\$4,741.65	\$	\$4,894.20	3.22%
150	\$56.06	\$2,718.00	\$105.41	\$2,879.47	\$56.06	\$2,773.50	\$107.62	\$2,937.08	2.00%	120.0	\$0.00	\$4,050.00	\$153.90	\$4,203.90	\$21.97	\$4,182.00	\$159.75	\$4,363.72	3.80%	\$	\$7,083.37	\$	\$7,300.80	3.07%
200	\$56.06	\$3,624.00	\$139.84	\$3,819.90	\$56.06	\$3,698.00	\$142.65	\$3,896.71	2.01%	160.0	\$0.00	\$5,400.00	\$205.20	\$5,605.20	\$21.97	\$5,576.00	\$212.72	\$5,810.69	3.67%	\$	\$9,425.10	\$	\$9,707.41	3.00%

Bill Impact Comparison, Hotel Customers

Comparison of existing FY 2024 bill to FY 2024 bill under proposed rate design at various demand lev 2.0%

Water Use (kgals)	Current Water Bill (monthly)					Rate Design Water Bill (monthly)					Percent Water Bill Change	Sewer (kgals)	Current Wastewater Bill (monthly)					Rate Design Wastewater Bill (monthly)					Percent WW Bill Change	Combined Bill	
	Base Charges	Volumetric Charges	3.8% Surcharge	Current Water Bill	Rate Design Water Bill	Base Charges	Volumetric Charges	3.8% Surcharge	Rate Design Water Bill	Percent Water Bill Change			Base Charges	Volumetric Charges	3.8% Surcharge	Current WW Bill	Rate Design WW Bill	Base Charges	Volumetric Charges	3.8% Surcharge	Rate Design WW Bill	Percent WW Bill Change		Current CHARGES	Rate Design CHARGES
Customers with 3/4" meter																									
5	\$30.62	\$90.60	\$4.61	\$ 125.83	\$ 127.75	\$30.62	\$92.45	\$4.68	\$ 127.75	1.53%	4.0	\$0.00	\$97.36	\$3.70	\$ 101.06	\$12.00	\$100.52	\$4.28	\$ 116.80	15.57%	\$ 226.89	\$ 244.54	7.78%		
10	\$30.62	\$181.20	\$8.05	\$ 219.87	\$ 223.71	\$30.62	\$184.90	\$8.19	\$ 223.71	1.75%	8.0	\$0.00	\$194.72	\$7.40	\$ 202.12	\$12.00	\$201.04	\$8.10	\$ 221.14	9.41%	\$ 421.99	\$ 444.85	5.42%		
15	\$30.62	\$271.80	\$11.49	\$ 313.91	\$ 319.67	\$30.62	\$277.35	\$11.70	\$ 319.67	1.84%	12.0	\$0.00	\$292.08	\$11.10	\$ 303.18	\$12.00	\$301.56	\$11.92	\$ 325.48	7.35%	\$ 617.09	\$ 645.15	4.55%		
20	\$30.62	\$362.40	\$14.93	\$ 407.95	\$ 415.64	\$30.62	\$369.80	\$15.22	\$ 415.64	1.88%	16.0	\$0.00	\$389.44	\$14.80	\$ 404.24	\$12.00	\$402.08	\$15.74	\$ 429.82	6.33%	\$ 812.19	\$ 845.45	4.10%		
25	\$30.62	\$453.00	\$18.38	\$ 502.00	\$ 511.60	\$30.62	\$462.25	\$18.73	\$ 511.60	1.91%	20.0	\$0.00	\$486.80	\$18.50	\$ 505.30	\$12.00	\$502.60	\$19.55	\$ 534.15	5.71%	\$ 1,007.30	\$ 1,045.75	3.82%		
30	\$30.62	\$543.60	\$21.82	\$ 596.04	\$ 607.56	\$30.62	\$554.70	\$22.24	\$ 607.56	1.93%	24.0	\$0.00	\$584.16	\$22.20	\$ 606.36	\$12.00	\$603.12	\$23.37	\$ 638.49	5.30%	\$ 1,202.40	\$ 1,246.06	3.63%		
50	\$30.62	\$906.00	\$35.59	\$ 972.21	\$ 991.41	\$30.62	\$924.50	\$36.29	\$ 991.41	1.98%	40.0	\$0.00	\$973.60	\$37.00	\$ 1,010.60	\$12.00	\$1,005.20	\$38.65	\$ 1,055.85	4.48%	\$ 1,982.81	\$ 2,047.27	3.25%		
100	\$30.62	\$1,812.00	\$70.02	\$ 1,912.64	\$ 1,951.05	\$30.62	\$1,849.00	\$71.43	\$ 1,951.05	2.01%	80.0	\$0.00	\$1,947.20	\$73.99	\$ 2,021.19	\$12.00	\$2,010.40	\$76.85	\$ 2,099.25	3.85%	\$ 3,933.83	\$ 4,050.30	2.96%		
Customers with 4" meter																									
250	\$178.55	\$4,530.00	\$178.92	\$ 4,887.47	\$ 4,983.49	\$178.55	\$4,622.50	\$182.44	\$ 4,983.49	1.96%	200.0	\$0.00	\$4,668.00	\$184.98	\$ 5,052.98	\$89.97	\$5,026.00	\$193.65	\$ 5,289.62	4.68%	\$ 9,940.46	\$ 10,273.11	3.35%		
400	\$178.55	\$7,248.00	\$282.21	\$ 7,708.76	\$ 7,862.38	\$178.55	\$7,396.00	\$287.83	\$ 7,862.38	1.99%	320.0	\$0.00	\$7,788.80	\$295.97	\$ 8,084.77	\$89.97	\$8,041.60	\$308.24	\$ 8,419.81	4.14%	\$ 15,793.53	\$ 16,282.19	3.09%		
550	\$178.55	\$9,966.00	\$385.49	\$ 10,451.99	\$ 10,741.28	\$178.55	\$10,114.00	\$393.23	\$ 10,741.28	2.01%	440.0	\$0.00	\$10,668.00	\$406.96	\$ 11,165.06	\$89.97	\$10,888.00	\$422.83	\$ 11,550.00	3.90%	\$ 21,646.61	\$ 22,291.28	2.98%		
700	\$178.55	\$12,684.00	\$488.78	\$ 13,272.78	\$ 13,620.17	\$178.55	\$12,842.00	\$498.62	\$ 13,620.17	2.01%	560.0	\$0.00	\$12,776.00	\$517.96	\$ 14,148.36	\$89.97	\$12,986.00	\$537.43	\$ 14,680.20	3.76%	\$ 27,499.68	\$ 28,300.36	2.91%		
850	\$178.55	\$15,402.00	\$592.06	\$ 16,094.06	\$ 16,493.06	\$178.55	\$15,560.00	\$604.01	\$ 16,493.06	2.02%	680.0	\$0.00	\$15,498.00	\$628.95	\$ 17,180.15	\$89.97	\$15,700.00	\$652.02	\$ 17,810.39	3.67%	\$ 33,352.76	\$ 34,309.45	2.87%		
1,000	\$178.55	\$18,120.00	\$695.34	\$ 18,815.34	\$ 19,377.95	\$178.55	\$18,278.00	\$709.40	\$ 19,377.95	2.02%	800.0	\$0.00	\$18,196.00	\$739.94	\$ 20,211.94	\$89.97	\$18,406.00	\$766.61	\$ 20,940.58	3.61%	\$ 39,205.83	\$ 40,318.54	2.84%		
1,150	\$178.55	\$20,838.00	\$798.63	\$ 21,636.63	\$ 22,256.65	\$178.55	\$20,996.00	\$814.80	\$ 22,256.65	2.02%	920.0	\$0.00	\$20,976.00	\$850.93	\$ 23,243.73	\$89.97	\$21,166.00	\$881.20	\$ 24,070.77	3.56%	\$ 45,058.91	\$ 46,327.62	2.82%		
1,300	\$178.55	\$23,556.00	\$901.91	\$ 24,457.91	\$ 25,135.74	\$178.55	\$23,714.00	\$920.19	\$ 25,135.74	2.03%	1,040.0	\$0.00	\$23,696.00	\$961.92	\$ 26,275.52	\$89.97	\$23,986.00	\$995.80	\$ 27,200.97	3.52%	\$ 50,911.98	\$ 52,336.71	2.80%		

Bill Impact Comparison, Government Customers
 Comparison of existing FY 2024 bill to FY 2024 bill under proposed rate design at various demand levels

Water Use (kgals)	Current Water Bill (monthly)					Rate Design Water Bill (monthly)					Percent Water Bill Change	Sewer (kgals)	Current Wastewater Bill (monthly)					Rate Design Wastewater Bill (monthly)					Percent WW Bill Change	Combined Bill		W&W Bill Change
	Base Charges	Volumetric Charges	3.8% Surcharge	Current Water Bill	Rate Design Water Bill	Base Charges	Volumetric Charges	3.8% Surcharge	Rate Design Water Bill	Percent Water Bill Change			Base Charges	Volumetric Charges	3.8% Surcharge	Current WW Bill	Rate Design WW Bill	Base Charges	Volumetric Charges	3.8% Surcharge	Rate Design WW Bill	Percent WW Bill Change		Current CHARGES	Rate Design CHARGES	
Customers with 3/4" meter																										
5	\$30.62	\$90.60	\$4.61	\$125.83	\$30.62	\$92.45	\$4.68	\$127.75	1.53%	4.0	\$0.00	\$57.12	\$2.17	\$89.29	\$12.00	\$58.96	\$2.70	\$73.66	24.23%	\$185.12	\$201.40	8.79%				
10	\$30.62	\$181.20	\$8.05	\$219.87	\$30.62	\$184.90	\$8.19	\$223.71	1.75%	8.0	\$0.00	\$114.24	\$4.34	\$118.58	\$12.00	\$117.92	\$4.94	\$134.86	13.73%	\$338.45	\$358.57	5.94%				
15	\$30.62	\$271.80	\$11.49	\$313.91	\$30.62	\$277.35	\$11.70	\$319.67	1.84%	12.0	\$0.00	\$171.36	\$6.51	\$177.87	\$12.00	\$176.88	\$7.18	\$196.06	10.22%	\$491.78	\$515.73	4.87%				
20	\$30.62	\$362.40	\$14.93	\$407.95	\$30.62	\$369.80	\$15.22	\$415.64	1.88%	16.0	\$0.00	\$228.48	\$8.88	\$237.16	\$12.00	\$235.84	\$9.42	\$257.26	8.47%	\$645.12	\$672.89	4.30%				
25	\$30.62	\$453.00	\$18.38	\$502.00	\$30.62	\$462.25	\$18.73	\$511.60	1.91%	20.0	\$0.00	\$285.60	\$10.85	\$296.45	\$12.00	\$294.80	\$11.66	\$318.46	7.42%	\$798.45	\$830.06	3.96%				
30	\$30.62	\$543.60	\$21.82	\$596.04	\$30.62	\$554.70	\$22.24	\$607.56	1.93%	24.0	\$0.00	\$342.72	\$13.02	\$355.74	\$12.00	\$353.76	\$13.90	\$379.66	6.72%	\$951.78	\$987.22	3.72%				
50	\$30.62	\$906.00	\$35.59	\$972.21	\$30.62	\$924.50	\$36.29	\$991.41	1.98%	40.0	\$0.00	\$571.20	\$21.71	\$592.91	\$12.00	\$589.60	\$22.86	\$624.46	5.32%	\$1,565.12	\$1,615.88	3.24%				
100	\$30.62	\$1,812.00	\$70.02	\$1,912.64	\$30.62	\$1,848.00	\$71.43	\$1,951.05	2.01%	80.0	\$0.00	\$1,142.40	\$43.41	\$1,185.81	\$12.00	\$1,179.20	\$46.27	\$1,236.47	4.27%	\$3,098.45	\$3,187.51	2.87%				
Customers with 1.5" meter																										
25	\$56.06	\$453.00	\$19.34	\$528.40	\$56.06	\$462.25	\$19.70	\$538.01	1.82%	20.0	\$0.00	\$285.60	\$10.85	\$296.45	\$21.97	\$294.80	\$12.04	\$328.81	10.91%	\$824.86	\$866.81	5.09%				
50	\$56.06	\$906.00	\$36.56	\$998.62	\$56.06	\$924.50	\$37.26	\$1,017.82	1.92%	40.0	\$0.00	\$571.20	\$21.71	\$592.91	\$21.97	\$589.60	\$23.24	\$634.81	7.07%	\$1,591.52	\$1,652.63	3.84%				
75	\$56.06	\$1,359.00	\$53.77	\$1,468.83	\$56.06	\$1,386.75	\$54.83	\$1,497.64	1.96%	60.0	\$0.00	\$856.80	\$32.56	\$889.36	\$21.97	\$884.40	\$34.44	\$940.81	5.79%	\$2,358.19	\$2,438.45	3.40%				
100	\$56.06	\$1,812.00	\$70.99	\$1,939.05	\$56.06	\$1,848.00	\$72.39	\$1,977.45	1.98%	80.0	\$0.00	\$1,142.40	\$43.41	\$1,185.81	\$21.97	\$1,179.20	\$45.64	\$1,246.81	5.14%	\$3,124.86	\$3,224.27	3.18%				
125	\$56.06	\$2,265.00	\$88.20	\$2,409.26	\$56.06	\$2,311.25	\$89.96	\$2,457.27	1.99%	100.0	\$0.00	\$1,428.00	\$54.26	\$1,482.26	\$21.97	\$1,474.00	\$56.85	\$1,552.82	4.76%	\$3,891.52	\$4,010.08	3.05%				
150	\$56.06	\$2,718.00	\$105.41	\$2,879.47	\$56.06	\$2,773.50	\$107.52	\$2,937.08	2.00%	120.0	\$0.00	\$1,713.60	\$65.12	\$1,778.72	\$21.97	\$1,768.80	\$68.05	\$1,858.82	4.50%	\$4,658.19	\$4,795.90	2.95%				
175	\$56.06	\$3,171.00	\$122.63	\$3,349.69	\$56.06	\$3,235.75	\$125.09	\$3,416.90	2.01%	140.0	\$0.00	\$1,999.20	\$75.97	\$2,075.17	\$21.97	\$2,063.60	\$79.25	\$2,164.82	4.32%	\$5,424.86	\$5,581.72	2.89%				
200	\$56.06	\$3,624.00	\$139.84	\$3,819.90	\$56.06	\$3,698.00	\$142.65	\$3,896.71	2.01%	160.0	\$0.00	\$2,284.80	\$86.82	\$2,371.62	\$21.97	\$2,358.40	\$90.45	\$2,470.82	4.18%	\$6,191.52	\$6,367.54	2.84%				

Bill Impact Comparison, Agriculture Customers

Comparison of existing FY 2024 bill to FY 2024 bill under proposed rate design at various demand levels

		Current Water Bill (monthly)			Rate Design Water Bill (monthly)			Percent Water Bill Change	
Water Use (kgals)	Base Charges	Volumetric Charges	3.8% Surcharge	Current Water Bill	Base Charges	Volumetric Charges	3.8% Surcharge		Rate Design Water Bill
Customers with 3/4" meter									
1	\$29.58	\$ 5.82	\$1.35	\$ 36.75	\$29.58	\$5.94	\$1.35	\$ 36.87	0.34%
3	\$29.58	\$ 17.46	\$1.79	\$ 48.83	\$29.58	\$17.82	\$1.80	\$ 49.20	0.76%
5	\$29.58	\$ 29.10	\$2.23	\$ 60.91	\$29.58	\$29.70	\$2.25	\$ 61.53	1.02%
7	\$29.58	\$ 40.74	\$2.67	\$ 72.99	\$29.58	\$41.58	\$2.70	\$ 73.86	1.19%
9	\$29.58	\$ 52.38	\$3.11	\$ 85.07	\$29.58	\$53.46	\$3.16	\$ 86.20	1.33%
11	\$29.58	\$ 64.02	\$3.56	\$ 97.16	\$29.58	\$65.34	\$3.61	\$ 98.53	1.41%
13	\$29.58	\$ 75.66	\$4.00	\$109.24	\$29.58	\$77.22	\$4.06	\$110.86	1.48%
15	\$29.58	\$ 87.30	\$4.44	\$121.32	\$29.58	\$89.10	\$4.51	\$123.19	1.54%
Customers with 1.5" meter									
1	\$54.18	\$ 5.82	\$2.28	\$ 62.28	\$54.18	\$5.94	\$2.28	\$ 62.40	0.19%
3	\$54.18	\$ 17.46	\$2.72	\$ 74.36	\$54.18	\$17.82	\$2.74	\$ 74.74	0.51%
5	\$54.18	\$ 29.10	\$3.16	\$ 86.44	\$54.18	\$29.70	\$3.19	\$ 87.07	0.73%
7	\$54.18	\$ 40.74	\$3.61	\$ 98.53	\$54.18	\$41.58	\$3.64	\$ 99.40	0.88%
9	\$54.18	\$ 52.38	\$4.05	\$110.61	\$54.18	\$53.46	\$4.09	\$111.73	1.01%
11	\$54.18	\$ 64.02	\$4.49	\$122.69	\$54.18	\$65.34	\$4.54	\$124.06	1.12%
13	\$54.18	\$ 75.66	\$4.93	\$134.77	\$54.18	\$77.22	\$4.99	\$136.39	1.20%
15	\$54.18	\$ 87.30	\$5.38	\$146.86	\$54.18	\$89.10	\$5.44	\$148.72	1.27%

Bill Impact Comparison, Irrigation Customers

Comparison of existing FY 2024 bill to FY 2024 bill under proposed rate design at various demand levels

		Current Water Bill (monthly)			Rate Design Water Bill (monthly)			Percent Water Bill Change	
Water Use (kgals)	Base Charges	Volumetric Charges	3.8% Surcharge	Current Water Bill	Base Charges	Volumetric Charges	3.8% Surcharge		Rate Design Water Bill
Customers with 3/4" meter									
1	\$30.62	\$ 6.02	\$1.39	\$ 38.03	\$30.62	\$6.15	\$1.40	\$ 38.17	0.35%
3	\$30.62	\$ 18.06	\$1.85	\$ 50.53	\$30.62	\$18.45	\$1.86	\$ 50.93	0.79%
5	\$30.62	\$ 30.10	\$2.31	\$ 63.03	\$30.62	\$30.75	\$2.33	\$ 63.70	1.06%
7	\$30.62	\$ 42.14	\$2.76	\$ 75.52	\$30.62	\$43.05	\$2.80	\$ 76.47	1.26%
9	\$30.62	\$ 54.18	\$3.22	\$ 88.02	\$30.62	\$55.35	\$3.27	\$ 89.24	1.39%
11	\$30.62	\$ 66.22	\$3.68	\$ 100.52	\$30.62	\$67.65	\$3.73	\$ 102.00	1.47%
13	\$30.62	\$ 78.26	\$4.14	\$ 113.02	\$30.62	\$79.95	\$4.20	\$ 114.77	1.55%
15	\$30.62	\$ 90.30	\$4.59	\$ 125.51	\$30.62	\$92.25	\$4.67	\$ 127.54	1.62%
Customers with 1.5" meter									
1	\$56.06	\$ 6.02	\$2.36	\$ 64.44	\$56.06	\$6.15	\$2.36	\$ 64.57	0.20%
3	\$56.06	\$ 18.06	\$2.82	\$ 76.94	\$56.06	\$18.45	\$2.83	\$ 77.34	0.52%
5	\$56.06	\$ 30.10	\$3.27	\$ 89.43	\$56.06	\$30.75	\$3.30	\$ 90.11	0.76%
7	\$56.06	\$ 42.14	\$3.73	\$ 101.93	\$56.06	\$43.05	\$3.77	\$ 102.88	0.93%
9	\$56.06	\$ 54.18	\$4.19	\$ 114.43	\$56.06	\$55.35	\$4.23	\$ 115.64	1.06%
11	\$56.06	\$ 66.22	\$4.65	\$ 126.93	\$56.06	\$67.65	\$4.70	\$ 128.41	1.17%
13	\$56.06	\$ 78.26	\$5.10	\$ 139.42	\$56.06	\$79.95	\$5.17	\$ 141.18	1.26%
15	\$56.06	\$ 90.30	\$5.56	\$ 151.92	\$56.06	\$92.25	\$5.64	\$ 153.95	1.34%