Borough of Conshohocken Authority Sewer Rate Study

Prepared for

The Borough of Conshohocken Authority

Prepared by

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1. Executive Summary & Recommendations

The Borough of Conshohocken Authority commissioned this study to review the adequacy of its present sewer rates. The Authority last adjusted its volumetric rate for service provided to its Conshohocken area customers in 2018. At that time, the charge per thousand gallons of use was increased from \$3.07 per thousand gallons to \$3.30 per thousand gallons, an increase of about 7.5%. In addition to the volumetric charge, the Authority also bills a fixed service charge per equivalent dwelling unit ("EDU"). This charge of \$45 per quarter was not changed in 2018 and it remains in effect today. In addition to the service provided in the Borough of Conshohocken service area, the Authority also provides wastewater service for customers in its West Conshohocken service area. This service area was acquired in 2018 and the rates charged to customers in this service area were reduced in 2020. Since that change, a customer in West Conshohocken has paid a quarterly fixed charge of \$63 per EDU and a volumetric charge of \$6.60 per thousand gallons of use. In addition to these basic charges, Industrial Customers pay a fixed fee for the cost of the Industrial Pretreatment Program administration. The Authority's rate structure also includes authorization to levy surcharges for excess biochemical oxygen demand, excess total suspended solids, and excess ammonia, but there have been no excess surcharges billed since at least 2015.

The cost of providing sewer service has and will continue to grow. The Authority has been able to manage increases in costs through close control of its expenses and they have benefited from modest customer growth, the addition of roughly 1,255 EDU's through the acquisition of the West Conshohocken service area and favorable weather patterns. This study evaluates the likely cost of providing sewer service over the coming five years and develops the rates that would be required to recover the full cost of service through sewer billings.

Since the mid-1990's water use throughout the United States has been declining. While there are many factors contributing to this, the principal reasons are related to changes in plumbing codes and conservation-oriented manufacturing standards for water-using appliances. In short,

new dish washers, clothes washers, toilets, and shower heads use less water than their historical counterparts. As homes are renovated and appliances are replaced, typical average residential water use declines. From a rate setting perspective, while the cost of service is increasing, the number of gallons sold over which that cost can be recovered is declining on a per customer basis. This decline is partially offset through the addition of new customers. This study reviews recent trends in declining average use in the Authority's service area to quantify the expected usage likely to occur during the period rates recommended by this study are to be in effect. Sewer rates are partially volume based. In both the Conshohocken and West Conshohocken service areas, the fixed service charge, which does not vary by volume used, represents about half of the typical residential bill. The remaining portion of the bill is sensitive to the volume used.

Historical actual costs have been evaluated on a budget line-item basis. Actual expenses for 2015 through 2021 were reviewed. Each line item was reviewed to determine linear growth trends, median values, and average values for this historical period. Compound rates of growth (or decline) were also identified for each account group. This analysis was used to forecast operating and maintenance expenses under current operating procedures for 2023 through 2026. The forecast for each line item is based an average of: (1) the linear trend exhibited by the historic actual expenses; (2) the change in expense from the mid-point of the historical data through the forecast year at the average year-over-year rate of charge; and (3) the average expense for 2019-2021 adjusted by the average rate of inflation. Additional adjustments to several line items were made based on the industry experience and input from the Authority's staff. These adjustments include the annual service fee to the Borough as well as additional amounts to ensure proper maintenance of the Authority's facilities. Overall, O&M expense are projected to increase at a compound annual rate of growth of 3.32%. Within this amount, plant expenses are forecast to grow at a rate of 2.44%, maintenance expense is forecast to grow at 2.66% per year and Administrative and General Expenses are forecast to grow at an average of 4.39% per year. The total of these line-item expenses added to the depreciation and interest expense represents the revenue requirement for the utility, and this is the amount that should be recovered in rates.

The study also reviewed the Authority's capital improvement plan. Recommendations are made in this study to maintain a construction fund balance near current levels to ensure that future capital needs can be adequately funded. Connection fees and the proceeds from operations along with capital payments from Plymouth Township are used in conjunction with a proposed financing in 2024 to fund the Authority's capital program. The Authority anticipates significant capital contributions through connection fees. The realization of these contributions is dependent on economic conditions outside of the control of the Authority. As a result, a conservative a conservative approach was taken in this study in the assumption that connection fees would not be realized during this plan period. This ensures that rates will be adequate if economic conditions prevent the anticipated development and redevelopment projects from proceeding within the planning period. Should the full amount of the anticipated connection fees be realized, the projected financing in this study may not be necessary and the rate adjustments recommended herein should be reconsidered. The use of connection fees to fund the capital program minimizes the need to issue new debt and results in a lower cost of service than that which would result if the Authority used debt exclusively to fund improvements. Various tests of the economic strength of the Authority were considered to ensure that the Authority operations resulted in a forecast increase in net position each year and that the results of operations would result in a debt service coverage ratio greater than 1.5. This will ensure that the Authority is in a financial position to continue to provide the safe, adequate and proper service expected of a modern sewer utility.

This study recommends increases in the fixed service charges and volumetric rates. An increase of 8% effective January 1, 2023, an additional annual 9% increases effective January 1, 2024, through January 1, 2026 are recommended for the Conshohocken service area. For the West Conshohocken service area, which already has a higher rate than the Conshohocken service area, an increase of 6% effective January 1, 2023 and an additional annual increase of 5% effective January 1, 2024 through January 1, 2026 are recommended. Current and proposed Authority rates for a typical residential customer have been compared to peer utilities throughout the region. The Authority's current rates result in charges that are 30% lower the median value for peer utilities and are also significantly lower than the charges typical of large

investor-owned utilities. The recommended rate increases contained in this study are modest and result in modest changes in the comparison to peer utility <u>current</u> rates. It is certain that peer utilities will implement increases to their current rates and these increases are generally unknown and not reflected in the comparisons. The large investor-owned utilities in the region have maintained a cadence of rate increases every two or three years with intervening quarterly increase to collection system improvement surcharges. Currently, Aqua Pennsylvania's Zone 1 wastewater service rates produce a quarterly charge of \$173.51 for a customer using 3,000 gallons per month. This amount of use is comparable to that used by a typical residential customer in the Conshohocken service area who now pays \$74.70 per quarter (almost 60% less than what an Aqua customer pays for the same service). If Aqua's current petition for new rates is approved by the Pennsylvania Public Utility Commission, these charges could jump to \$203.68 in or about May 2022. With the rate adjustments recommended in this study fully implemented through 2026, the Authority's rates for this level of service will produce a quarterly bill of \$104.43, about half of what Aqua will charge for the same service in 2022.

2. Customer and Sales Volume Analysis

The Authority utilizes metered use of drinking water to determine the volumetric portion of the wastewater service bills it renders to its customers. The way in which customers use water is becoming more efficient, particularly for indoor residential water use. There are many reasons for this. Generally, in the United States, average use per residential customer tended to increase in the years following World War II and that increasing trend continued until about the mid-1990's. At this point in time, average use per customer tended to level out and a general decline began that continues today.

In 1992, Congress passed the Energy Policy Act, which, among other things set energy efficiency standards for household appliances like dish washers and clothes washers. As a result of these standards, appliance manufacturers found that reducing the amount of hot water used in their appliances helped achieve compliance with the energy efficiency standards. Significant improvements in water efficiency have been realized as high-efficiency dish washers and clothes washers came to market. In addition to the impact of the Energy Policy Act, several plumbing code changes have been implemented and the US Environmental Protection Agency has launched the WaterSense program applicable to a host of plumbing fixtures like shower heads, toilets, and faucets. All of these initiatives have resulted in indoor plumbing devices that use less water. The trends resulting from these changes are meaningful and must be understood to properly anticipate water sales volumes, which are used to compute the Authority's sewer service bills, for budgeting and rate design. While customer use is generally gaining in efficiency, the addition of new customers to the service area tends to offset the decline in sales volume that would otherwise manifest itself in a static service area.

Table 1 shows the actual and forecast population data for the communities in the Authority's service area. The historical data are US Census population data, and the forecast is that compiled by the Delaware Valley Regional Planning Commission. These data were used to develop a composite rate of population growth for the planning period. Inter-period compound

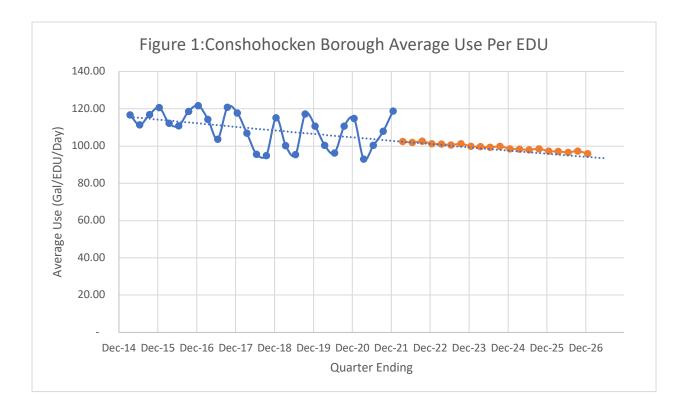
growth rates for each community for 2020 through 2025 and 2030 were calculated and the average of these growth rates was determined to by 0.32% per year.

Table 1: Local Unit Deputation Data	2000	2010	2020	2025	2030
Table 1: Local Unit Population Data	Census	Census	Census	Forecast	Forecast
Conshohocken Borough	7,590	7,833	9,261	9,456	9,877
West Conshohocken Borough	1,445	1,320	1,493	1,472	1,499
Total	9,035	9,153	10,754	10,928	11,376
Compound Annual Growth Rates					
Conshohocken Borough		0.32%	1.69%	0.42%	0.87%
West Conshohocken Borough		-0.90%	1.24%	-0.28%	0.36%
Total		0.13%	1.63%	0.32%	0.81%
Composite Planning Period Growth Rate				0.32%	
(1) Historical and forecast population	data from A	nalytical Dat	a Report, Co	ounty and Mu	inicipal Level
Population Forecasts 2015-2045, Delaw	vare Valley R	egional Plan	ning Commis	sion, ADR 02	2, July 2016,
Appendix A Page 6					
(2) 2020 Census from					
https://data.census.gov/cedsci/table?q=Cor	nshohocken%2	0borough,%2	0Montgomery	%20County,%2	20Pennsylvani

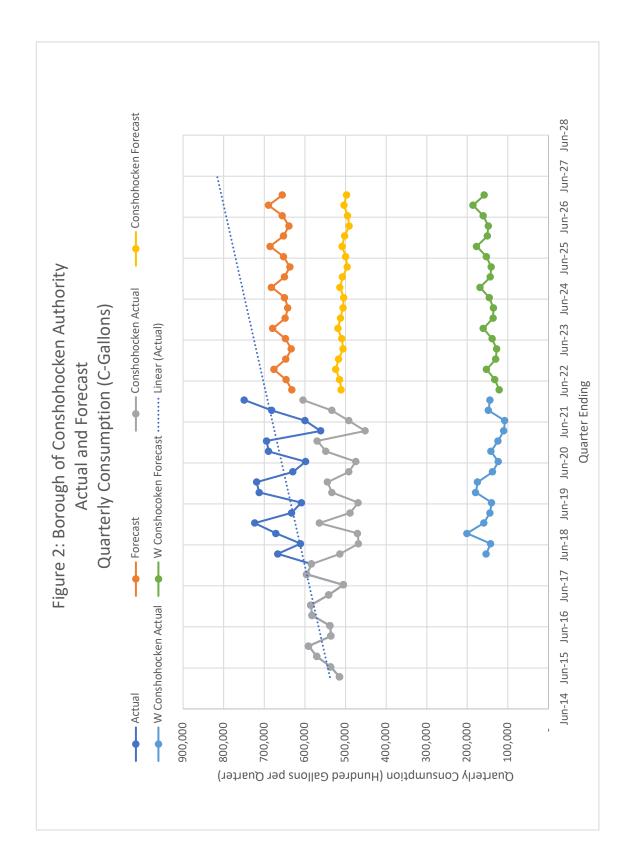
a&tid=DECENNIALPL2020.P1

The composite growth rate was used to estimate the likely number of EDUs to be served through the planning period addressed by this Study. Starting with the actual EDU count for 2021, EDU additions at 0.32% per year are anticipated through 2026. This represents an average growth rate in the number of EDUs of 6 per quarter.

Average use per customer was also analyzed for the historical period (2015 through 2021) and the results of this analysis are shown for the Borough of Conshohocken in Figure 1. Here, it can be seen that there is an established trend toward greater water use efficiency and this trend is projected to continue into the near future.



Actual billing data for Conshohocken and West Conshohocken were analyzed and a weather-normalized forecast for quarterly consumption was prepared. The details of this analysis are presented in Appendix A. The Authority's billings are in part determined by water consumption. Water consumption is impacted by long-term trends toward more efficient use, the number of EDU's served by the Authority and weather. To assess the impact of weather on water use, the billed consumption volumes were compared to quarterly rainfall and the number of cooling degree days in the quarter. Rainfall has a negative impact on water use. Temperature during the peak seasonal water use periods has a positive impact on water use. Stated another way, during cool, wet periods, customers are likely to use less water than they would during hot, dry periods and the amount billed for wastewater service declines. The results of this analysis, which was done independently for Conshohocken and West Conshohocken are shown in Figure 2. Here, it can be seen that a slight increase in the total number of gallons billed annually over the rate study planning period should be anticipated. While the average use per customer is declining slightly, consistent with regional and national trends, the additional customer growth is offsetting the decline and resulting in slight growth in volumetric sales.



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Table 2 presents a summary of the historical and projected billing determinants resulting from this analysis. The number of EDUs billed annually in Conshohocken and in West Conshohocken are shown along with the volume billed in hundred-gallon units each year. For the industrial customers, Table 2 also shows the number of EDUs and billed gallons along with the number of Industrial Pretreatment Program Class fees to be billed. While the Authority's rate structure authorizes the billing of excess load charges, no such charges have been levied. Excess load charges can be billed to industrial users who discharge wastewater to the system when the strength of the wastewater exceeds predetermined limits for biochemical oxygen demand, total suspended solids, and ammonia.

Table 2: Summary of Billing Determinants												
Billing Determinants - Conshohocken	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
EDU's Billed Annually	20,822	21,152	21,365	21,434	21,111	21,575	21,691	22,190	22,268	22,346	22,424	22,502
Volume (CG)	2,211,931	2,241,259	2,225,439	2,015,597	2,034,609	2,083,151	2,081,374	2,065,365	2,045,287	2,030,876	2,005,576	1,986,006
Billing Determinants - West Conshohocken												
EDU's Billed Annually				2,773	2,842	4,004	5,022	5,138	5,156	5,174	5,192	5,210
Excess Volume (CG)				378,853	353,613	383,177	509,386	535,432	562,680	592,884	621,475	653,078
Allowance Volume (CG)				277,300	284,200	144,200	,	'	•		•	
Industrial Users												
Conshohocken EDU's	10	10	10	10	10	10	10	10	10	10	10	10
Conshohocken Volume (CG)	7,539	6,573	6,508	4,780	4,098	4,170	3,453	4,000	4,000	4,000	4,000	4,000
West Conshohocken - Service Fee				4	4	4	4	4	4	4	4	4
West Conshohocken Excess Volume (CG)				10,766	10,865	6,560	6,642	7,000	7,000	7,000	7,000	7,000
Class 1 Accounts	0	1	1	1	1	1	0	0	0	0	0	0
Class 2 Accounts	2	1	1	1	1	1	1	1	TI	1	1	1
Class 3 Accounts	10	11	10	10	10	10	10	10	10	10	10	10
Load Surcharges												
BOD (Ib)		ı	1	•	•	1		•				
TSS (Ib)		ı	1	•	•	1		•				
Ammonia (lb)	ı		ı	ı	•		ı			1	ı	

3. Capital Improvement Plan

Like all well managed sewer utilities, the Authority has anticipated the need to improve and renew its facilities to maintain safe, adequate, and proper service. As sewer utility systems age, some assets will need to be renewed or replaced. To address this, the Authority has identified a number of improvements to its wastewater treatment works and its sewer collection and conveyance systems. These projects are summarized in Table 3. Through a negotiated agreement with Plymouth Township, the capacity of the wastewater treatment system is shared. This arrangement includes an allocation of improvement costs between the Authority and Plymouth Township. The allocation is reflected in Table 3. Some of the more significant improvements planned at the wastewater treatment plant include the scheduled replacement of the Rotating Biological Contactor Units 1through 9 of Train B at a cost of \$3,220,000 and the plant electrical substation upgrade at an estimated cost of \$2,350,000.

The Authority plans to continue its ongoing Inflow & Infiltration control programs, and to incorporate the West Conshohocken collection network into the geographic information system. In addition, a number of pump station upgrades, including the provision of standby power in West Conshohocken are planned.

Over the next five years, the Authority plans to invest an average of \$1.5 million per year in the assets of the system. The largest expenses are anticipated in 2026 (\$3,830,000) and 2024 (\$2,222,500). The Authority has time to plan for these higher expense years by ensuring that rates are adequate to cover the cost of implementing these improvements and making sure any necessary financings are in place when needed.

Table 4 shows an analysis of the Authority's construction fund. This analysis demonstrates the Authority's ability to fund the capital improvements and maintain a positive fund balance sufficient to fund, in advance, the maximum anticipated annual construction disbursements. Transfers to and from the operating fund are reflected in this table.

Table 3: Capital Improvement Plan			_						
WWTP PROJECT	Depreciation Rate	2022		2023		2024	2025		2026
Wet Well Submersible Pump Replacement	0.1429	\$ 50,000		50,000				Ŷ	30,000
Wet Well Control Panel Upgrade	0.1429		Ŷ	200,000					
Rotating Biological Contactor Train B Units 1-9 Replacement	0.0333				Ŷ	75,000		Ŷ	3,145,000
Solids Handling Upgrade Study (Digester A & B)	0.1429		Ŷ	10,000				_	
Alarm Panel & SCADA System Upgrade	0.1429		_					Ŷ	300,000
Utility & Yard Piping	0.0200		_		Ŷ	25,000	\$ 225,000	0	
Driveway Resurfacing	0.1429		_					Ŷ	185,000
Electrical Substation Upgrade to Service Entire WWTP	0.1000	\$ 100,000	\$ 0	250,000	Ŷ	2,000,000		_	
Thickener Tank Engineering Study	0.1429		Ŷ	8,500					
Administration Building Rennovations (Engineering Study)	0.1429	\$ 25,000	\$ 0	50,000	Ŷ	25,000		_	
Security Upgrade (Cameras, Fire/Alarm System)	0.1429		_		Ŷ	22,500		_	
Belt Filter Press Replacement	0.0200	۰ ج	Ŷ						
Rehabilitation to Interceptor	0.0200	\$ 113,807	7						
Total WWTP Projects		\$ 288,807	\$_ 1	568,500	Ş	2,147,500	\$ 225,000	\$ O	3,660,000
Capital Shares Per Borough/Township (WWTP)			_						
Conshohocken 73.8%		\$ 213,140	ې م	419,553	ŝ	1,584,855	\$ 166,050	ې ک	2,701,080
Plymouth Township 26.2%		\$ 75,667		148,947	ŝ		\$ 58,950		
			_					_	
Collection & Conveyance Project		2022		2023		2024	2025		2026
Collection Rehabilitation Engineering Study	0.0200		Ŷ	15,000				_	
Rehabilitation to Collection System	0.0200		_		Ŷ	75,000	\$ 75,000	ې ٥	75,000
Easement Acquisitions	I		Ŷ	50,000			\$ 50,000	0	
West Conshohocken Collection System GIS Upgrade	0.1000						\$ 80,000	0	
West Conshohocken Pump Station Pumps	0.1429		Ŷ	22,500			\$ 24,500	0	
West Conshohocken Pump Station Generator & Elec Upgrades	0.1429								
West Conshohocken Pump Station Control Panel & Elect Upgrades	0.1429		_					_	
Easement Jet Vac Machine	I							Ş	95,000
Total Collection & Conveyance Costs		- \$	Ş	87,500	Ş	75,000	\$ 229,500	\$_0	170,000
TOTAL CABAITAL IMBROVEMENTS		¢ 788 807	v r		v	2 222 EAD	ל אבא בחח	ب د	2 820 000
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Conshohocken Cost		\$ 213,140	ې ک	507,053	ŝ	1,659,855	\$ 395,550	ې ک	2,871,080
Plymouth Township Cost		\$ 75,667		148,947	Ś	562,645	\$ 58,950		958,920
	12								

Table 4: Construction Fund Analysis										
		2022		2023		2024		2025	2026	26
Starting Balance	÷	4,000,000	Ŷ	4,000,000 \$ 5,117,817 \$	Ŷ	4,594,410 \$ 5,656,663 \$ 4,566,807	Ŷ	5,656,663	\$ 4,56	56,807
Construction Disbursements	Ŷ	(213,140)	ŝ	(507,053) \$	Ŷ	(1,659,855) \$	Ŷ	(395,550) \$ (2,871,080)	\$ (2,87	71,080)
Disbursements from Connection Fee Fund	Ŷ	I	ŝ	(760,000)	Ŷ	(850,000)	<u>۰</u> ۷۲	(760,000) \$ (650,000)	\$ (65	50,000)
Transfer From Operating Fund - Prior Year	Ŷ	1,255,289	ŝ	594,699	Ŷ	9,462	ᡐ	6,744	÷	6,834
Connection Fees Realized	Ŷ	I	ŝ	•	Ŷ	I	Ŷ		Ŷ	ı
Plymouth Township Payments	Ŷ	75,667	ŝ	148,947	Ŷ	562,645	Ŷ	58,950	÷	958,920
Financing	Ş	1	ŝ	-	ŝ	3,000,000	Ŷ		Ş	-
Ending Balance	Ş	5,117,817	Ŷ	4,594,410	Ŷ	5,117,817 \$ 4,594,410 \$ 5,656,663 \$ 4,566,807 \$ 2,011,481	Ŷ	4,566,807	\$ 2,01	11,481

Note that Table 4 includes a line item titled "Connection Fees Realized" and for each of the plan years, the amount anticipated for purposes of this rate study is zero dollars. This is an intentionally conservative assumption, and it is also internally consistent with the anticipated low growth in the number of EDU's described earlier in Section 2. In the development of the billing determinants in Section 2, this study anticipates the connection of 96 customers during the plan period. In recent years, the Authority has realized significant connection fees as the service area has evolved and developed. At present, there are six known developments that could add as many as 1,125 EDU's to the system.¹ The timing of the addition of these developments is unknown and subject to the influence of many uncontrollable external economic factors. The amount of connection fees associated with these proposed developments is significant and could be as much as \$6,000,000. Because the Authority cannot control the receipt of these funds, the study does not anticipate that the funds will be in hand and useable by the Authority during the planning period. If, however, significant connection fees are realized, these funds can be retained and used to fund improvements and capital additions to the system. This would offset or delay the need for a financing, as shown in Table 4 or increase the availability of funds to stabilize rates by offsetting other maintenance and renewal expenses reflected in the operating budget. In addition, the additional customers added to the system will produce operating revenues not included in the revenue projections on which rate recommendations are based.

4. Revenue Requirement & Rate Recommendation

The Authority's operating budget represents the principal portion of the total sewer revenue requirement. A Comparative Income Statement for 2015 through 2021 is shown in Table 5. In this table, the actual and budgeted sewer revenues are shown as are the actual and budgeted sewer expenses. In addition, annual depreciation expense and interest costs are shown. At the bottom of this table, the net change in position is calculated along with the debt service coverage ratio. The debt service coverage ratio is a measure of the financial strength of

¹ This represents 4,500 quarterly billed EDU's per year compared to 384 additional quarterly billed EDU's per year accounted for in the projected billing determinants and revenue calculations. The rates projected in this study should be re-evaluated based on the actual number of additional EDU's added to the system annually.

the Authority in that it compares utility operating income to the annual debt service payment requirements. Although the current Authority financings do not specify a minimum coverage ratio, it is common to see a minimum coverage ratio requirement of 1.10 in revenue bonds. This requirement means that the Authority would need to take in sufficient revenues to pay its expenses and have at least 110% of the annual debt service amount as net utility operating income. As can be seen in Table 5, the Authority has been able to surpass this typical minimum requirement. It is important to maintain the coverage ratio above minimum levels. This, among other metrics, are used by debt rating agencies to determine the quality of the Authority's debt. Higher debt ratings result in lower borrowing costs. This translates directly to a lower revenue requirement and therefore, lower customer rates. Because the Authority is a Pennsylvania Municipal Authority, any surplus revenues generated as a result of maintaining a higher coverage ratio than the minimum would be held in a construction reserve or rate stabilization fund for the ultimate benefit of the Authority's customers. Dollars held in a construction reserve would be used to fund future construction work without the need to incur new debt and this would also help to keep future rates as low as possible.

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					Revenues &	Exp			nding Decem	ber 3	31			
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	2015		2016	-	2017		2018	-	2019		2020		2021	
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	175,735	\$	169,356	\$	93,297		-		-	\$	-	\$	-	
	-		131,290	\$	252,829		-		-	\$	-	\$	-	
\$	-	\$	-	\$	-	\$	-	\$	67,052	\$	10,623	\$	5,513	
\$	-	\$	-	\$	-	\$	-	\$	-	\$	8,998	\$	-	
\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	90,000	
\$	2,178,999	\$	2,538,751	\$	3,093,950	\$	3,260,798	\$	3,374,791	\$	4,667,050	\$	4,409,448	
							Actua							
	2015		2016		2017		2018		2019		2020		2021	
\$	386,416	\$	398,794	\$	309,594	\$	333,467	\$	351,459	\$	322,362	\$	305,445	
\$	(27,377)	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
\$	34,905	\$	35,531	\$	26,577	\$	25,801	\$	28,054	\$	25,457	\$	22,908	
\$	-	\$	14,919	\$	16,952	\$	14,975	\$	11,975	\$	13,955	\$	13,536	
\$	-	\$	-	\$	-	\$	-	\$	29,934	\$	8,398	\$	8,223	
Ś	-	Ś	-	Ś	-	Ś	-			Ś	56.853	Ś	63,845	
\$	137,974	\$	151,250	\$	115,677	\$	85,905	\$	-	\$	-	\$	-	
\$	-	\$	8,540	\$	16,872	\$	27,828	\$	34,778	\$	15,776	\$	6,493	
\$	-	\$	-	\$	-	\$	-	\$	4,378	\$	4,035	\$	4,394	
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\$	2,880		960			\$	-	\$	-	\$	-	\$	-	
\$	776	\$	3,821			\$	-	\$	-	\$	-	\$	47,40	
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\$	77	\$	1,699											
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Workers' Compensation Insurance \$ 15,063 \$ 4,467 \$ 19,966 \$ (107) \$ 8088 \$ Pension \$ - \$ - \$ - \$ 23,260 \$ 5,039 \$ TASC Medical Copay \$ - \$ 10,334 \$ 19,929 \$ 16,381 \$ Life Insurance \$ 5 \$ 5,950 \$ 55,555 \$ 59,568 \$ 9,6134 \$ Legal Plant \$ 10,806 \$ 4,140 \$ 13,599 \$ 39,873 \$ 41,711 \$ 13,262 \$ Legal - Collection & Liens \$ 15,522 \$ 2,1524 \$ 13,590 \$ 13,262 \$ 4,4413 \$ 4,275 \$ 4,313 \$ 112,666 \$ Legal - Collection & Liens \$ 5,5,221 \$ 6,2040 \$ 7,500 \$ <td>Payroll Taxes</td> <td>\$</td> <td>10,584</td> <td>\$</td> <td>11,037</td> <td>\$</td> <td>20,420</td> <td>\$</td> <td>17,932</td> <td>\$</td> <td>22,136</td> <td>\$</td> <td>17,194</td> <td>\$</td> <td>24,0</td>	Payroll Taxes	\$	10,584	\$	11,037	\$	20,420	\$	17,932	\$	22,136	\$	17,194	\$	24,0
Pension \$ - \$ - \$ - \$ 2,2,260 \$ 5,0,39 \$ TAC Medical Copay \$ - \$ 4,218 \$ 1,034 \$ 7,055 \$ 1,9,292 \$ 1,6,381 \$ Life Insurance \$ 5,4,382 \$ 5,5,555 \$ 5,9,568 \$ 9,9,102 \$ 9,7,027 \$ 9,7,027 \$ 9,9,702 \$ 9,1,446 \$ 13,339 \$ 1,47,114 \$ 9,7,487 \$ Legal - Plant \$ 10,806 \$ 4,140 \$ 21,841 \$ 4,275 \$ 1,3,235 \$	Medical & Dental Benefits	\$	23,047	\$	28,860	\$	45,168	\$	36,887	\$	33,294	\$	23,285	\$	30,8
TASC Medical Copay \$. \$ 4.218 \$ 10,334 \$ 7,065 \$ 19,929 \$ 16,811 \$ Life Insurance \$. \$. \$. \$. \$ </td <td>Workers' Compensation Insurance</td> <td>\$</td> <td>15,063</td> <td>\$</td> <td>4,467</td> <td>\$</td> <td>1,966</td> <td>\$</td> <td>804</td> <td>\$</td> <td>(107)</td> <td>\$</td> <td>808</td> <td>\$</td> <td>2,0</td>	Workers' Compensation Insurance	\$	15,063	\$	4,467	\$	1,966	\$	804	\$	(107)	\$	808	\$	2,0
Life Insurance \$ - \$ - \$ - \$ 2,940 \$ 2,050 \$ Insurance \$ \$4,382 \$ \$5,050 \$ \$59,568 \$ \$147,114 \$ \$ \$13,262 \$ <t< td=""><td>Pension</td><td>\$</td><td>-</td><td>\$</td><td>-</td><td>\$</td><td>-</td><td>\$</td><td>-</td><td>\$</td><td>23,260</td><td>\$</td><td>5,039</td><td>\$</td><td>4,9</td></t<>	Pension	\$	-	\$	-	\$	-	\$	-	\$	23,260	\$	5,039	\$	4,9
Insurance \$ 54,382 \$ 56,550 \$ 55,555 \$ 59,588 \$ 59,815 \$ 69,543 \$ Legal \$ 97,028 \$ 87,013 \$ 91,446 \$ 153,300 \$ 147,114 \$ 97,487 \$ Legal - Plant \$ 10,806 \$ 4,140 \$ 13,259 \$ 13,297 \$ 2,375 \$ 9,473 \$ Legal - Collection & Liens \$ 13,882 \$ 2,154 \$ 13,259 \$ 3,737 \$ 13,235 \$ - \$ \$	TASC Medical Copay	\$	-	\$	4,218	\$	10,334	\$	7,065	\$	19,929	\$	16,381	\$	8,:
Legal\$ 97,028\$ 87,013\$ 91,446\$ 153,390\$ 147,114\$ 97,487\$Legal Plant\$ 10,806\$ 4,140\$ 21,841\$ 4,275\$ 2,375\$ 95,00\$Legal Collection & Liens\$ 13,882\$ 21,554\$ 13,599\$ 39,873\$ 41,731\$ 13,235\$ -\$Plymouth Sewer Acquisition\$ -\$ 5.5,221\$ 62,024\$ 53,269\$ 67,468\$ 80,013\$ 115,666\$Auditing & Accounting\$ 55,321\$ 62,024\$ 53,269\$ 67,468\$ 80,013\$ 114,327\$Board Expense Payment\$ 3,950\$ 7,500\$ 7,500\$ 7,500\$ 7,475\$ 7,475\$ 7,950\$Consulting Fees\$ 3,430\$ 39,888\$ 32,660\$ 15,218\$ 18,879\$ 7,950\$Administrative Service Fee\$ 17,404\$ 12,775\$ 9,987\$ 6,211\$ 8,015\$ 4,573\$Computer Expense\$ 3,773\$ 2,387\$ 5,594\$ 21,467\$ 3,2016\$\$\$Computer Expense\$ 3,773\$ 2,387\$ 5,694\$ 23,827\$ 5,943\$ 2,2146\$Computer Expense\$ 3,773\$ 2,387\$ 4,688\$ 29,973\$ 2,387\$ 5,243\$ 2,2145\$Conduct Spense\$ 3,773\$ 2,387\$ 5,594\$ 2,1477\$ 2,2145\$ 2,2146\$Conduct Spense\$ 3,773\$ 2,387\$ 4,880\$ 4,880\$ 2,917\$ 3,898\$ 2,917\$ 5,326\$ 4,683\$ 2,916\$ 11,913\$ 4,933\$ <td>Life Insurance</td> <td>\$</td> <td>-</td> <td>\$</td> <td>-</td> <td>\$</td> <td>-</td> <td>\$</td> <td>-</td> <td>\$</td> <td>2,940</td> <td>\$</td> <td>2,505</td> <td>\$</td> <td>2,8</td>	Life Insurance	\$	-	\$	-	\$	-	\$	-	\$	2,940	\$	2,505	\$	2,8
Legal \$ 97,028 \$ 87,013 \$ 91,446 \$ 153,390 \$ 147,114 \$ 97,487 \$ Legal - Plant \$ 10,800 \$ 4,140 \$ 21,2841 \$ 4,275 \$ 2,375 \$ 97,607 \$ Legal - Collection & Liens \$ 13,882 \$ 21,554 \$ 13,599 \$ 93,873 \$ 41,731 \$ 97,607 \$ Plymouth Sewer Acquisition \$ 5,5321 \$ 62,024 \$ 53,269 \$ 67,648 \$ 80,013 \$ 115,666 \$ Engineering Fees \$ \$ 7,500 \$ 18,661 \$ 10,800 \$ 14,327 \$ Consulting Fees \$ 3,950 \$ 7,500 \$ 15,218 \$ 10,800 \$ 14,327 \$ Ober, Subscriptions & Conferences \$ 3,430 \$ 39,888 \$ 32,660 \$ 15,218 \$ 8,8175 \$ 4,573 \$ Ordie Supplies & Expense \$ 17,404 \$ 12,775 \$ 9,877 \$ 6,211 \$ 8,015 \$ 4,573 \$ Conduting Fees \$ 3,773 \$ 19,890 \$ 21,947 \$ 22,145 \$ 22,146 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Insurance	\$	54,382	\$	56,950	\$	55,555	\$	59,568	\$	59,815	\$	69,543	\$	72,5
Legal - Plant \$ 10,806 \$ 4,140 \$ 21,841 \$ 4,275 \$ 2,375 \$ 950 \$ Legal - Collection & Liens \$ 13,882 \$ 21,554 \$ 13,599 \$ 39,873 \$ 41,731 \$ 13,262 \$ Plymouth Sewer Acquisition \$ 5 52,211 \$ 62,204 \$ 53,3769 \$ 67,468 \$ 80,013 \$ 113,666 \$ Engineering Fees \$ 5 3,750 \$ 7,500 \$ 7,500 \$ 7,475 \$ 7,500 \$ 12,218 \$ 13,379 \$ 7,500 \$ 13,278 \$ 7,500 \$ 13,278 \$ 7,500 \$ 12,218 \$ 13,370 \$ 14,377 \$ 5 3,370 \$ 13,373 \$ 2,377 \$ 3,377 \$ 2,377 \$ 2,387 \$ 2,145 \$ 2,145 \$ 2,145 \$ 2,145 \$ 2,145 \$	Legal	\$	97,028	\$	87,013	\$	91,446	\$	153,390	\$		\$	97,487	\$	82,0
Plymouth Sewer Acquisition \$ - \$ - \$ - \$ 1 \$ - \$ 1 \$ - \$ 1 \$ - \$ 1 \$ 1 \$ 5 \$ 1 \$ 1 \$	Legal - Plant	\$	10,806	\$	4,140	\$	21,841	\$	4,275	\$	2,375	\$	950	\$	1,2
Plymouth Sewer Acquisition \$ \$ \$ \$ 13,235 \$ \$ Auditing & Accounting \$ 55,321 \$ 62,204 \$ 53,269 \$ 67,468 \$ 80,013 \$ 115,666 \$ Engineering Fees \$ 3,950 \$ 7,720 \$ 7,700 \$ 7,475 \$ 7,475 \$ 7,475 \$ 7,900 \$ 7,475 \$ 7,900 \$ 7,475 \$ 7,900 \$ 7,475 \$ 7,950 \$ 7,475 \$ 7,950 \$ 7,475 \$ 7,950 \$ 7,475 \$ 7,950 \$ 7,950 \$ 7,950 \$ 7,950 \$ 7,950 \$ 7,950 \$ 7,950 \$ 7,950 \$ 7,950 \$ 7,950 \$ 7,950 \$ 7,950 \$ 7,950 \$ 7,950 \$ 7,950 \$ 7,950 \$ 7,950 \$ 7,950 \$ 7,950 \$	Legal - Collection & Liens	\$	13,882	\$	21,554	\$	13,599	\$	39,873	\$	41,731	\$	13,262	\$	14,4
Auditing & Accounting \$ 55,321 \$ 62,204 \$ 53,269 \$ 67,468 \$ 80,013 \$ 115,666 \$ Engineering Fees \$ - \$ 722 \$ 3,370 \$ 18,661 \$ 10,800 \$ 14,327 \$ Board Expense Payment \$ 3,950 \$ 7,500 \$ 7,500 \$ 7,500 \$ 7,475 \$ 7,500 \$ Consulting Fees \$ 3,340 \$ 39,890 \$ 32,600 \$ 15,218 \$ 18,379 \$ 7,950 \$ Administrative Service Fee \$ 17,404 \$ 12,775 \$ 9,387 \$ 6,211 \$ 8,015 \$ 4,573 \$ Office Supplies & Expenses \$ 20,310 \$ 19,890 \$ 20,278 \$ 21,947 \$ 22,145 \$ 20,130 \$ Computer Expense \$ 2,0310 \$ 19,890 \$ 5,694 \$ 23,947 \$		\$	-	\$	-	\$	-		-				-	\$	
Engineering Fees\$722\$3,370\$18,661\$10,800\$14,327\$Board Expense Payment\$3,950\$7,500\$7,500\$7,500\$7,475\$7,500\$Consulting Fees\$3,430\$39,889\$32,660\$15,218\$18,379\$7,950\$Administrative Service Fee\$-\$-\$-\$-\$-\$\$53,010\$Dues, Subscriptions & Conferences\$17,404\$12,775\$9,387\$6,211\$\$22,145\$4,573\$Office Supplies & Expenses\$20,310\$19,890\$20,278\$21,947\$22,145\$32,010\$Conduct Expense\$3,773\$2,387\$5,694\$23,827\$5,943\$32,010\$Conduct Expense\$\$-\$-\$-\$-\$\$2,2144\$Maintenance\$\$-\$ <td></td> <td></td> <td>55,321</td> <td>\$</td> <td>62,204</td> <td>\$</td> <td>53,269</td> <td>\$</td> <td>67,468</td> <td>\$</td> <td></td> <td>\$</td> <td>115,666</td> <td>\$</td> <td>95,2</td>			55,321	\$	62,204	\$	53,269	\$	67,468	\$		\$	115,666	\$	95,2
Board Expense Payment \$ 3,950 \$ 7,500 \$ 7,500 \$ 7,500 \$ 7,500 \$ 7,500 \$ 7,500 \$ 7,500 \$ 7,500 \$ 7,500 \$ 7,500 \$ 7,500 \$ 7,500 \$ 7,500 \$ 7,500 \$ 7,500 \$ 7,500 \$ 7,500 \$ 15,218 \$ 18,379 \$ 7,500 \$ Administrative Service Fee \$ 17,404 \$ 12,775 \$ 9,387 \$ 6,211 \$ 8,015 \$ 4,573 \$ Office Supplies & Expenses \$ 20,310 \$ 19,890 \$ 20,278 \$ 21,947 \$ 22,145 \$ 40,130 \$ 20,130 \$ 20,310 \$ 21,947 \$ 22,145 \$ 20,130 \$ 20,130 \$ 21,947 \$ 22,145 \$ 20,130 \$ 20,130 \$ 20,130 \$ 20,130 \$ 20,130 \$ 20,130 \$		\$	-	\$	722	\$	3,370	\$	18,661	\$	10,800	\$	14,327	\$	11,:
Consulting Fees \$ 3,430 \$ 39,889 \$ 32,660 \$ 15,218 \$ 18,379 \$ 7,950 \$ Administrative Service Fee \$ - \$ 20,178 \$ 21,947 \$ 22,145 \$ 20,130 \$ - \$ 20,130 \$ 20,130 \$ 20,130 \$ 20,130 \$ 21,947 \$ 22,145 \$ 20,130 \$ 20,130 \$ 20,130 \$ 20,130 \$ 20,130 \$ 20,130 \$ 20,130 \$ 20,130 \$ 20,			3,950		7,500	\$									6,!
Administrative Service Fee \$ 20,010 \$ 20,010 \$ 20,0130 \$ 20,0130 \$ 20,0130 \$ 20,0130 \$ 20,0130 \$ 20,0130 \$ 20,0130 \$ 20,0130 \$ 20,0130 \$ 20,0130 \$ 20,0130 \$ 20,0130 \$ 20,0130 \$ 20,0130 \$ 20,0130 \$ 20,0130 \$ 20,0130 \$ 20,0130 \$ 20,0130 \$ <t< td=""><td></td><td></td><td>,</td><td></td><td>,</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>- / ·</td></t<>			,		,										- / ·
Dues, Subscriptions & Conferences \$ 17,404 \$ 12,775 \$ 9,387 \$ 6,211 \$ 8,015 \$ 4,573 \$ Office Supplies & Expenses \$ 20,310 \$ 19,890 \$ 20,278 \$ 21,947 \$ 22,145 \$ 20,130 \$ Computer Expense \$ 3,773 \$ 2,387 \$ 5,694 \$ 23,827 \$ 5,943 \$ 32,016 \$ Covid-19 Expenses \$ 3,773 \$ 2,387 \$ 6 \$ 22,144 \$ 32,016 \$ 32,016 \$ 32,016 \$ 32,016 \$ 32,016 \$ 32,016 \$ 32,016 \$ 32,016 \$ 32,016 \$ 32,016 \$ 32,016 \$ 32,016 \$ 32,016 \$ 32,016 \$ 32,016 \$ 32,016 \$ 32,016 \$ 32,016 \$ 6,420 \$ 6,420 \$ 6,420 \$ 6,420 \$ 6,490 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>															
Office Supplies & Expenses \$ 20,310 \$ 19,890 \$ 20,787 \$ 21,947 \$ 22,145 \$ 20,130 \$ Computer Expense \$ 3,773 \$ 2,387 \$ 5,694 \$ 23,827 \$ 5,943 \$ 32,016 \$ Covid-19 Expenses \$ \$ \$ \$ \$ 22,194 \$ 32,016 \$ Maintenance \$ \$ \$ \$ 4,867 \$ \$ 4,867 \$ 3,337 \$ 1,425 \$ 7,166 \$ 6,490 \$ Advertising \$ 10,623 \$ 3,147 \$ 3,337 \$ 1,425 \$ 5,6490 \$ 6,490 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			17.404		12.775		9.387		6.211		8.015		4.573		13,:
Computer Expense \$ 3,773 \$ 2,387 \$ 2,869 \$ 2,827 \$ 5,943 \$ 3,2016 \$ Covid-19 Expenses \$ - \$ - \$ - \$ - \$ - \$ 2,2194 \$ Maintenance \$ - \$ - \$ 468 \$ 29 \$ - \$ Telephone \$ 4,867 \$ 5,211 \$ 4,868 \$ 5,214 \$ 7,166 \$ 6,122 \$ Advertising \$ 10,623 \$ 3,149 \$ 3,337 \$ 1,425 \$ 3,502 \$ 6,490 \$ Community Outreach \$ - \$ - \$ - \$ - \$ 1,642 \$ 10,278 \$ Postage - Billing & General \$ 7,364 \$ 8,281 \$ 6,898 \$ 8,980 \$ 14,605 \$ 10,728 \$ Collection Expense <															21,7
Covid-19 Expenses \$ <td></td> <td></td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td>,</td> <td>· · ·</td> <td></td> <td></td> <td></td> <td></td> <td>18,</td>					,				,	· · ·					18,
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Advertising \$ 10,623 \$ 3,149 \$ 3,337 \$ 1,425 \$ 3,502 \$ 6,490 \$ Community Outreach \$ - \$ - \$ - \$ - \$ 1,642 \$ 6,490 \$ Postage - Billing & General \$ 7,364 \$ 8,8281 \$ 6,898 \$ 8,980 \$ 14,605 \$ 10,278 \$ Billing Services \$ - \$ - \$ - \$ - \$ - \$ 10,278 \$ 10,278 \$ 10,278 \$ 10,278 \$ 10,278 \$ \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 10,605 \$ 10,766 \$ \$ 10,766 \$ \$ 7,850 \$ 7,650 \$ 7,475 \$ \$ 7,453			4.867				4.826						6.122		6,3
Community Outreach \$ - \$ - \$ - \$ 1,642 \$ - \$ Postage - Billing & General \$ 7,364 \$ 8,281 \$ 6,898 \$ 8,980 \$ 14,605 \$ 10,278 \$ Billing Services \$ - \$ - \$ - \$ - \$ 10,278 \$ \$ 10,278 \$ \$ 10,278 \$ <td>•</td> <td></td> <td>7,0</td>	•														7,0
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Collection Expense \$ 4,516 \$ 5,533 \$ 6,557 \$ 8,806 \$ 11,911 \$ 10,766 \$ Upper Merion Sewer Rental Contract \$ - \$ - \$ - \$ - \$ 7,650 \$ 7,475 \$ Miscellaneous \$ 2,370 \$ 4,983 \$ 9,319 \$ 7,843 \$ 366 \$ 453 \$ Bank Fees \$ 4,749 \$ 5,214 \$ 5,334 \$ 5,157 \$ 5,269 \$ 5,560 \$ Bad Debt (Recovery), Settlement (Recovery) \$ (45,065) \$ - \$ (35,000) \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 3,350 \$ - \$ 3,450 \$ - \$ 3,450 \$ - \$ 3,450 \$ - \$ 3,550 <td< td=""><td>0 0</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>_0,2.0</td><td></td><td>3,4</td></td<>	0 0						-						_0,2.0		3,4
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Bank Fees \$ 4,749 \$ 5,214 \$ 5,334 \$ 5,157 \$ 5,269 \$ 5,560 \$ Bad Debt (Recovery), Settlement (Recovery) \$ (45,065) \$ - \$ - \$ (35,000) \$ - \$ - \$ Donations \$ - \$ - \$ - \$ 2,643 \$ 3,350 \$			2 370		4 982		9 210								· · ,
Bad Debt (Recovery), Settlement (Recovery) \$ (45,065) \$ - \$ (35,000) \$ - \$ - \$ Donations \$ - \$ <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5,</td></td<>															5,
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tal Administrative Expenses \$ 436,273 \$ 521,292 \$ 665,173 \$ 711,739 \$ 850,472 \$ 751,253 \$				_				_				· ·			3,9 786,2

Table 5: Comparitive Income Statement				Boro	bugh	of Conshohe	ocke	n Authority			
			F	Revenues &	Exp	enses for Ye	ar Ei	nding Decem	ber	31	
						Actua					
	2015	2016		2017		2018		2019		2020	2021
Operating Income Before Depreciation	\$ 697,223	\$ 782,217	\$	1,354,848	\$	1,463,296	\$	1,250,842	\$	2,907,289	\$ 2,538,099
Depreciation	\$ (556,887)	\$ (565,904)	\$	(657,237)	\$	(801,257)	\$	(901,598)	\$	(979,728)	\$ (1,009,570)
Operating Income	\$ 140,336	\$ 216,313	\$	697,611	\$	662,039	\$	349,244	\$	1,927,561	\$ 1,528,529
Non-Operating Revenues (Expense)											
Interest Income	\$ 4,432	\$ 6,109	\$	7,057	\$	28,976	\$	67,052			
Grant Revenue		\$ -	\$	200,000	\$	337,023	\$	-			
Interest Expense	\$ (95,158)	\$ (40,747)	\$	(278,625)	\$	(353,596)	\$	(340,076)	\$	(282,114)	\$ (273,240)
Net Non-Operating Revenues (Expense)	\$ (90,726)	\$ (34,638)	\$	(71,568)	\$	12,403	\$	(273,024)	\$	(282,114)	\$ (273,240)
Income Before Capital Contributions	\$ 49,610	\$ 181,675	\$	626,043	\$	674,442	\$	76,220	\$	1,645,447	\$ 1,255,289
Capital Contributions			\$	-	\$	17,820	\$	-			
Increase in Net Position	\$ 49,610	\$ 181,675	\$	626,043	\$	692,262	\$	76,220	\$	1,645,447	\$ 1,255,289
Debt Service	\$ 95,158	\$ 99,497	\$	270,371	\$	666,186	\$	660,936	\$	826,581	\$ 827,353
Coverage Ratio	7.33	7.86		5.01		2.20		1.89		3.52	3.07

The historical periods shown in Table 5 were analyzed to develop a forecast of the revenue requirement for the Authority. On average, operations and maintenance expense, including administration had a median value of \$1.76 million per year in these test periods. The compound rate of growth has been limited to 3.97% from 2015 through 2021. Generally, water and sewer rates nationally have been growing at a rate in excess of inflation and have been on the order of 3% to 4% per year, so this experience is in line with national trends.

Each expense line item in Table 5 was reviewed individually to estimate the level of expense that should be anticipated in the planning period. Each line item was reviewed to determine linear growth trends, median values and average values for this historical period. Compound rates of growth (or decline) were also identified for each account group. This analysis was used to forecast operating and maintenance expenses under current operating procedures for 2023 through 2026. The forecast for each line item is based an average of: (1) the linear trend exhibited by the historic actual expenses; (2) the change in expense from the mid-point of the historical data through the forecast year at the average year-over-year rate of change; and (3) the average expense for 2019-2021 adjusted by the average rate of inflation. If a definable trend could not be seen in the test period data, an average for the test period was calculated and that average was increased at the annual rate of inflation for the 2012 through 2020 period. This rate of growth was calculated to be 2.29% per year. Additional adjustments to several line items were made based on the author's experience in the industry and input from the Authority's staff. For

example, the level of effort required to maintain equipment at the wastewater treatment plant was increased by \$100,000 starting in 2023 and maintained at this higher level through the plan period. Similarly, additions to the forecast years were made to account for annual payments of \$200,000 to the Borough, to allow a contract service to be used for One-Call mark-outs (\$30,000 per year) and to allow additional operating/maintenance staff to be retained (\$80,000 per year). Overall, O&M expense are projected to increase at a compound annual rate of growth of 3.32%. Within this amount, plant expenses are forecast to grow at a rate of 2.44%, maintenance expense is forecast to grow at 2.66% per year and Administrative and General Expenses are forecast to grow at an average of 4.39% per year. Table 6 shows the Authority's Budget for 2022 and the forecast for 2023 through 2026. The revenues shown in Table 6 are factored to include the rate adjustments recommended in this study.

Historically, the Authority has received connection fees for new services provided throughout the service territory. In some years, the amounts receive were significant. The receipt of connection fees is not under the control of the Authority. Rather, the activity that results in the generation of connection fees is largely under the control of the entities who require service for prospective developments and redevelopment projects. At present, the Authority is anticipating additional developments that could add over 1,125 EDUs to the system. The corresponding connection fees associated with these additions is over \$6 million. As discussed earlier, based on anticipated changes in the service area population, growth has been accounted for in the revenue projections with an average of 6 EDUs being added per quarter. This would conservatively account for the actual connection of 96 of the total anticipated EDUs within the planning period. Depending on the economic conditions actually experienced within the service area, many more connections could actually be made, and the collection of connection fees could be materially higher than what is forecast here. If that occurs, the need for an additional financing in 2024 could be deferred and the rate increases anticipated in 2024 and 2025 could be reduced or delayed.

Rate adjustments were considered and tested to provide sufficient sewer revenues to cover the anticipated expenses so that a positive change in net position occurred each year in the plan and the debt service coverage ratio was maintained at a level greater than 150%.

Changes made to the capital improvement plan or in the amount of connection fees realized in any year would impact the need for the 2024 financing and the rate increases proposed for 2024 and beyond. Unless the annual connection fees materially exceed what is forecast for 2022 and the capital improvement plan is reduced during the planning period, the 2023 rate increase should not be deferred. Following the 2023 increase, additional annual increases are recommended through the planning period. In making these recommendations, we have not anticipated the receipt of connection fees and we have endeavored to put the Authority on track to generate sufficient revenues to sustain the normal amount of routine and recurring capital replacements needed to maintain safe, adequate and proper service without incurring new debt beyond what is recommended in 2024. As many similar authorities have found, being in a position to sustain routine and recurring capital additions and replacements without increasing the debt burden on customers leads to a lower overall revenue requirement and lower rates. Routine and recurring expenses, like pump replacements or Inflow and Infiltration control expenses occur every year and these expenses should be supported by current customers in current rates. The forward-looking rate projections put the Authority on course to achieve the objective of sustainably funding routine and recurring improvements without growing the Authority debt burden.

Table 6: Comparitive Income Statement		Da				onshohocke			- 21	
			evei	nues & Expe	nse			-	r 31	
		Budget		2022		For	eca			2026
		2022	-	2023		2024	-	2025		2026
Operating Revenues							-			
Sewer Service		2,280,000		2,557,871	· ·	2,780,151	-	3,015,766	\$	3,275,528
Connection Fees		1,200,000	\$	760,000	\$	850,000	\$	760,000	\$	650,000
Penalties	\$	20,000	\$	26,000	\$	26,000	\$	26,000	\$	26,000
Certifications	\$	11,900	\$	11,000	\$	11,000	\$	11,000	\$	11,000
NSF Fees	\$	140	\$	160	\$	160	\$	160	\$	160
MIPP Fees	\$	5,500	\$	5,775	\$	5,775	\$	6,064	\$	6,064
Misc Fees & Permits	\$	3,500	\$	7,000	\$	7,000	\$	7,000	\$	7,00
Energy Curtailment Program	\$	-	\$	-	\$	-	\$	-	\$	-
Lien Fees	\$	2,500	\$	3,000	\$	3,000	\$	3,000	\$	3,00
Legal Fees	\$	10,000	\$	8,000	\$	8,000	\$	8,000	\$	8,00
Contract Revenues - Plymouth Twp	\$	340,000	\$	340,000	\$	340,000	\$	340,000	\$	340,000
Contract Revenues - Plymouth Twp - Capital	\$	-	\$	-	\$	-	\$	-	\$	-
Contract Revenues - W. Conshohocken	\$	-	\$	-	\$	-	\$	-	\$	-
Contract Revenues - W. Conshohocken - Capital	\$	-	\$		\$	-	\$	-	\$	
Interest Income	\$	5.000	\$	5,000	\$	5,000	\$	5,000	\$	5,00
Capital Contributions	\$	5,000	\$	- 5,000	\$	- 5,000	\$	- 5,000	\$	5,00
Transfer from Connection Fee Account	\$	- F0 000	ې \$	-	ې S	-	\$	-	\$	-
	·	50,000		3.723.806	· ·	-	+ <u>'</u>	-	<u> </u>	4 221 75
Total Operating Revenues	Ş	3,928,540	\$	3,723,800	Ş	4,036,086	Ş	4,181,989	\$	4,331,75
- ·· -						-				
Operating Expenses		Budget				For	eca			
Plant Expenses		2022		2023		2024		2025		2026
Wages	\$	348,916	\$	429,000	\$	437,000	\$	446,000	\$	454,00
Sick Pay	\$	-	\$	-	\$	-	\$	-	\$	-
Payroll Taxes	\$	26,169	\$	27,000	\$	28,000	\$	29,000	\$	29,00
Workers' Compensation Insurance	\$	15,169	\$	18,000	\$	19,000	\$	20,000	\$	21,00
Pension	\$	9,257	\$	17,000	\$	17,000	\$	17,000	\$	18,00
Medical & Dental Benefits	\$	58,708	\$	66,000	\$	68,000	\$	69,000	\$	71,00
EEContribution Benefits	\$	-	\$	-	\$	-	\$	-	\$	-
TASC Medical Copay	\$	22,079	\$	27,000	\$	29,000	\$	30,000	\$	32,00
Life Insurance	\$	4,183	\$	5,000	\$	6,000	\$	6,000	\$	7,00
Utilities - Gas & Electric	\$	130,000	\$	135,000	\$	137,000	\$	139,000	\$	141,00
Utilities - Water	\$	3,500	\$	4,000	\$	4,000	\$	4,000	\$	4,00
Plant Security	\$	1,500	\$	1,000	\$	1,000	\$	1,000	\$	1,00
Vehicle Maintenance	\$	500	\$	-	\$	-	\$	_,000	\$	
Plant Maintenance	\$		\$	100,000	\$	100,000	\$	100,000	\$	100,00
Plant Supplies	\$		\$	1,000	\$	1,000	\$	1,000	\$	1,00
	\$	-	\$	3,000	ې \$		\$		Ş Ş	
Repairs/Maintenance - Building		25,000	· ·		<u> </u>	3,000	_	3,000	<u> </u>	3,00
Repairs/Maintenance - Plant	\$	53,000	\$	40,000	\$	41,000	\$	42,000	\$	43,00
Small Tools - Minor Repairs	\$	-	\$	-	\$	-	\$	-	\$	-
Employee Drug Testing	\$	500	\$	-	\$	-	\$	-	\$	-
Engineering Fees	\$	10,000	\$	10,000	\$	10,000	\$	10,000	\$	10,00
Engineering - Wasteload Management	\$	4,000	\$	4,000		4,000		4,000	\$	4,00
Uniforms/Safety Supplies	\$	7,000	\$	7,000	\$	7,000	\$	7,000	\$	7,00
Inside Lab Costs	\$	4,000	\$	2,000		2,000	\$	2,000	\$	2,00
Outside Lab Costs	\$	30,000	\$	39,000	\$	41,000	\$	42,000	\$	44,00
Sludge Removal	\$	170,000	\$	183,000	\$	192,000	\$	201,000	\$	209,00
Treatment Chemical	\$	-	\$	-	\$	-	\$	-	\$	-
Chlorine	\$	5,000	\$	4,000	\$	4,000	\$	4,000	\$	4,00
Sodium Hypochlorite	\$	500	\$	1,000	\$	1,000	\$	1,000	\$	1,00
Sodium Bisulfate	\$	2,000	\$	2,000	\$	3,000	\$	3,000	\$	3,00
Lime	\$	-	\$	-	\$	-	\$	-	\$	-
Polymer	\$	4,000	\$	5,000	\$	5,000	\$	5,000	\$	5,00
Hydrogen Peroxide	\$	-	\$	-	\$	-	\$	-	\$	-
	\$	_	\$	-	\$	-	\$	-	\$	-
		-								
Odor Control			ć		c		C		C	
Odor Control Equipment Rentals and Lease Expense	\$	-	\$	-	\$	-	\$	-	\$	-
Odor Control Equipment Rentals and Lease Expense Miscellaneous Operating Expenses	\$ \$	-	\$	-	\$	-	\$	-	\$	-
Odor Control Equipment Rentals and Lease Expense	\$									- - 2,00 3,00

able 6: Comparitive Income Statement	Re	ven			onshohocke s for Year Ei			r 31	
	Budget		ues a expe	nse	Fore		-	1 91	
Maintenance Expenses	 2022		2023		2024		2025		2026
Wages - Road Crew	\$ 140,480	\$	133,000	\$	136,000	\$	140,000	\$	143,00
Payroll Taxes	\$ 10,536	\$	10,000	\$	10,000	\$	11,000	\$	11,00
Medical & Dental Benefits	\$ 13,618	\$	13,000	\$	13,000	\$	13,000	\$	14,00
Workers' Compensation Insurance	\$ 5,207	\$	6,000	\$	6,000	\$	7,000	\$	7,00
Pension	\$ 3,703	\$	6,000	\$	6,000	\$	6,000	\$	6,00
TASC Medical Copay	\$ 4,150	\$	6,000	\$	6,000	\$	6,000	\$	6,00
Life Insurance	\$ 2,091	\$	2,000	\$	3,000	\$	3,000	\$	3,00
Maintenance - Sewer	\$ 15,000	\$	11,000	\$	12,000	\$	12,000	\$	13,00
Maintenance - Supplies	\$ -	\$	-	\$	-	\$	-	\$	-
Pump Station - Maintenance	\$ 10,000	\$	5,000	\$	5,000	\$	5,000	\$	5,00
Pump Station - Utilities	\$ 7,500	\$	10,000	\$	11,000	\$	12,000	\$	13,00
Small Tools & Minor Equipment	\$ -	\$	1,000	\$	1,000	\$	-	\$	-
Equipment Rentals & Lease Expense	\$ -	\$	-	\$	-	\$	-	\$	-
Vehicle Expenses	\$ 6,000	\$	8,000	\$	8,000	\$	8,000	\$	9,00
Jet Truck Expenses	\$ 2,000	\$	2,000	\$	2,000	\$	2,000	\$	2,00
Camera and Vacuum Trailer	\$ 1,000	\$	2,000	\$	2,000	\$	2,000	\$	2,00
Camera Truck	\$ 3,000	\$	2,000	\$	2,000	\$	3,000	\$	3,00
Uniforms - Road Crew	\$ 2,000	\$	2,000	\$	2,000	\$	2,000	\$	2,00
One Call Service	\$ -	\$	30,000	\$	30,000	\$	30,000	\$	30,00
Engineering Fees - Collection System	\$ 8,000	\$	19,000	\$	20,000	\$	21,000	\$	21,00
Misc Expenses - Collection System	\$ -	\$	1,000	\$	1,000	\$	1,000	\$	1,00
otal Maintenance Expenses	\$ 234,285	\$	269,000	\$	276,000	\$	284,000	\$	291,00
	Budget				Fore	ecas	st		
dministrative Expenses	2022		2023		2024		2025		2026
Wages	\$ 334,908	\$	347,000	\$	370,000	\$	393,000	\$	416,00
Payroll Taxes	\$ 25,118	\$	26,000	\$	27,000	\$	29,000	\$	30,00
Medical & Dental Benefits	\$ 31,001	\$	33,000	\$	34,000	\$	34,000	\$	34,00
Workers' Compensation Insurance	\$ 2,264	\$	1,000	\$	1,000	\$	1,000	\$	1,00
Pension	\$ 5,554	\$	12,000	\$	12,000	\$	12,000	\$	13,00
TASC Medical Copay	\$ 10,379	\$	16,000	\$	16,000	\$	17,000	\$	17,00
Life Insurance	\$ 3,082	\$	3,000	\$	4,000	\$	4,000	\$	5,00
Insurance	\$ 77,871	\$	74,000	\$	77,000	\$	79,000	\$	82,00
Legal	\$ 90,000	\$	117,000	\$	119,000	\$	122,000	\$	125,00
Legal - Plant	\$ 3,000	\$	2,000	\$	2,000	\$	2,000	\$	2,00
Legal - Collection & Liens	\$ 29,000	\$	31,000	\$	31,000	\$	32,000	\$	32,00
Plymouth Sewer Acquisition	\$ -	\$	-	\$	-	\$	-	\$	-
Auditing & Accounting	\$ 58,000	\$	67,000	\$	76,000	\$	85,000	\$	94,00
Engineering Fees	\$ 10,000	\$	21,000	\$	23,000	\$	25,000	\$	27,00
Board Expense Payment	\$ 7,500	\$	8,000	\$	9,000	\$	9,000	\$	9,00
Consulting Fees	\$ 5,000	\$	5,100	\$	5,200	\$	5,300	\$	5,40
Administrative Service Fee	\$ 200,000	\$	200,000	\$	200,000	\$	200,000	\$	200,00
Dues, Subscriptions & Conferences	\$ 13,000	\$	9,000	\$	9,000	\$	10,000	\$	10,00
Office Supplies & Expenses	\$ 20,000	\$	23,000	\$	23,000	\$	23,000	\$	24,00
Computer Expense	\$ 15,000	\$	31,000	\$	34,000	\$	37,000	\$	39,00
Covid-19 Expenses	\$ -	\$	-	\$	-	\$	-	\$	-
Maintenance	\$ -	\$	-	\$	-	\$	-	\$	-
Telephone	\$ 6,500	\$	7,000	\$	7,000	\$	7,000	\$	8,00
Advertising	\$ 5,000	\$	4,000	\$	4,000	\$	4,000	\$	4,00
Community Outreach	\$ -	\$	-	\$	1,000	\$	1,000	\$	1,00
Postage - Billing & General	\$ 11,000	\$	13,000	\$	14,000	\$	14,000	\$	15,00
Billing Services	\$ 4,000	\$	2,000	\$	2,000	\$	2,000	\$	3,00
Collection Expense	\$ 8,000	\$	12,000	\$	13,000	\$	14,000	\$	14,00
Upper Merion Sewer Rental Contract	\$ 7,500	\$	8,000	\$	8,000	\$	9,000	\$	9,00
Miscellaneous	\$ 170	\$	-	\$	-	\$	-	\$	-
Bank Fees	\$ 5,500	\$	6,000	\$	6,000	\$	6,000	\$	6,00
Bad Debt (Recovery), Settlement (Recovery)	\$ -	\$	-	\$	-	\$	-	\$	-
Donations	\$ 5,000	\$	4,000	\$	4,000	\$	5,000	\$	5,00
Payroll Processing Fees	\$ 4,500	\$	4,000	\$	4,000	\$	4,000	\$	5,00
otal Administrative Expenses	\$ 997,847	\$	1,086,100	\$	1,135,200	\$	1,185,300	\$	1,235,40

Table 6: Comparitive Income Statement			Borough o	of Co	onshohocke	n Ai	uthority		
	Re	ver	nues & Expe	nses	s for Year Ei	ndir	ng Decembe	r 31	L
	Budget				Fore	ecas	st		
	2022		2023		2024		2025		2026
Operating Income Before Depreciation	\$ 1,756,427	\$	1,234,706	\$	1,459,886	\$	1,521,689	\$	1,586,352
Depreciation	\$ (1,013,884)	\$	(1,055,166)	\$	(1,191,839)	\$	(1,264,995)	\$	(1,323,205)
Operating Income	\$ 742,543	\$	179,540	\$	268,047	\$	256,695	\$	263,147
Non-Operating Revenues (Expense)									
Interest Income									
Grant Revenue									
Interest Expense	\$ (147,844)	\$	(170,078)	\$	(261,302)	\$	(249,860)	\$	(238,180)
Net Non-Operating Revenues (Expense)	\$ (147,844)	\$	(170,078)	\$	(261,302)	\$	(249,860)	\$	(238,180)
Income Before Capital Contributions	\$ 594,699	\$	9,462	\$	6,744	\$	6,834	\$	24,967
Capital Contributions									
Increase in Net Position	\$ 594,699	\$	9,462	\$	6,744	\$	6,834	\$	24,967
Debt Service	\$ 548,394	\$	692,988	\$	853,415	\$	853,669	\$	853,750
Coverage Ratio	3.20		1.78		1.71		1.78		1.86

Total operating expenses, excluding debt service are projected to average \$2.5 million per year and the compound annual rate of growth of these expenses is forecast to be 3.32%. This is typical of most water and sewer utilities. The rate of growth is also consistent and slightly lower than the Authority's actual experience (3.97% per year) between 2015 and 2021.

The rate adjustments used to arrive at the results in Table 6 are shown in Table 7. Rates should be sufficient to:

- Provide sufficient operating income before the collection of capital charges to cover operating expenses and debt service with a minimum coverage ratio of 1.50. The Authority's current debt instruments do not require this, however, future financings could be revenue bonds which would have such an obligation. For planning purposes, this level was used to ensure the financial strength of the Authority to support favorable debt ratings and access to low cost capital;
- Result in net adjusted operating income sufficient to replenish reserves and support the Authority's capital improvements, including those that may require external financing;
- III. Result in an annual positive change in net position; and
- IV. Allow the Authority to move toward a sustainable position where routine and recurring capital maintenance and replacement work is funded with current cash.

Table 7: Rate Adjustments					
Conshohocken	2022	2023	2024	2025	2026
Service Fees	0%	8%	9%	9%	9%
Volume Charge (\$/Th)	0%	8%	9%	9%	9%
West Conshohocken					
Service Fees	0%	6%	5%	5%	5%
Volume Charge (\$/Th) Vol > 10,000 Gal	0%	6%	5%	5%	5%
Industrial Users (\$/Year)					
Class 1	0%	5%	0%	5%	0%
Class 2	0%	5%	0%	5%	0%
Class 3	0%	5%	0%	5%	0%
Surcharges					
BOD (\$/lb)	0%	0%	0%	0%	0%
TSS (\$/lb)	0%	0%	0%	0%	0%
Ammonia (\$/lb)	0%	0%	0%	0%	0%

The resulting rates with the recommended adjustments fully implemented are shown in Table 8.

Table 8: Rates Table	_					
Conshohocken		2022	2023	 2024	 2025	 2026
Service Fees	\$	45.00	\$ 48.60	\$ 52.97	\$ 57.74	\$ 62.94
Volume Charge (\$/Th)	\$	3.30	\$ 3.56	\$ 3.88	\$ 4.23	\$ 4.61
West Conshohocken	_					
Service Fees	\$	63.00	\$ 66.78	\$ 70.12	\$ 73.63	\$ 77.31
Volume Charge (\$/Th) Vol > 10,000 Gal	\$	6.60	\$ 7.00	\$ 7.35	\$ 7.72	\$ 8.11
Industrial Users (\$/Year)						
Class 1	\$	3,500.00	\$ 3,675.00	\$ 3,675.00	\$ 3,858.75	\$ 3,858.75
Class 2	\$	2,000.00	\$ 2,100.00	\$ 2,100.00	\$ 2,205.00	\$ 2,205.00
Class 3	\$	350.00	\$ 367.50	\$ 367.50	\$ 385.88	\$ 385.88
Surcharges	_					
BOD (\$/lb)	\$	0.49	\$ 0.49	\$ 0.49	\$ 0.49	\$ 0.49
TSS (\$/lb)	\$	0.51	\$ 0.51	\$ 0.51	\$ 0.51	\$ 0.51
Ammonia (\$/lb)	\$	1.70	\$ 1.70	\$ 1.70	\$ 1.70	\$ 1.70

Table 9 shows the typical residential bill rendered by the Authority for its Conshohocken and West Conshohocken service areas at present and with the proposed rate adjustments implemented. The bill calculations are impacted by the projected changes in average use per customer. In Conshohocken, this will result in a lower billing for 2022, but the forecast changes are small enough to have no material impact on the typical bill. In Conshohocken, the average use is forecast at 3,000 gallons per month. In West Conshohocken, the average use has been and is projected to be slightly higher at 3,800 gallons per month. Given that the trend analysis discussed earlier and shown in Appendix A shows a slight uptick in consumption for West Conshohocken within the planning period, the typical bills for these customers will increase even without rate adjustments.

Table 9: Typical Residential B	illir	Ig				
Conshohocken						
Year		2022	2023	2024	2025	2026
Fixed Service Charge (\$/Qtr)	\$	45.00	\$ 48.60	\$ 52.97	\$ 57.74	\$ 62.94
Volume Charge (\$/THGal)	\$	3.30	\$ 3.56	\$ 3.88	\$ 4.23	\$ 4.61
Consumption (ThGal/Qtr)		9	9	9	9	9
Quarterly Bill	\$	74.70	\$ 80.64	\$ 87.89	\$ 95.81	\$ 104.43
Increase (Decrease)	\$	(3.30)	\$ 5.94	\$ 7.25	\$ 7.92	\$ 8.62
West Conshohocken						
Year		2022	2023	2024	2025	2026
Fixed Service Charge (\$/Qtr)	\$	63.00	\$ 66.78	\$ 70.12	\$ 73.63	\$ 77.31
Volume Charge (\$/THGal)	\$	6.60	\$ 7.00	\$ 7.35	\$ 7.72	\$ 8.11
Billed Consumption (ThGal/Q		10	11	11	12	13
Quarterly Bill	\$	129.00	\$ 143.78	\$ 150.97	\$ 166.27	\$ 182.74
Increase (Decrease)	\$	_	\$ 14.78	\$ 7.19	\$ 15.30	\$ 16.47

5. Rate Comparison

A review of the Authority's rates relative to other sewer service providers in the region was undertaken. While the revenue requirement and customer base of each utility are unique, it is useful to compare rates as an overall performance measure of the utility. In this Study, we accumulated the rates for 41 sewer service areas. During the planning period covered by this Study, water sales to Authority customers are projected to average 3,000 gallons per month in the Conshohocken service area. Using this average rate of consumption, we calculated the

typical monthly bill that would be rendered by the Authority and the peer group of regional sewer utilities at existing rates. The results of these calculations are shown in Table 10 these are shown graphically in Figure 3. The Authority rates compare favorably with peer utilities. The Authority's typical monthly sewer bill is now 30% below the calculated median value for the peer utilities, and the cost of service for a typical customer is well below the cost of service billed by the region's large investor-owned utilities and regional authorities. The Authority's typical bill is 63% lower than the average bill rendered by Aqua Pennsylvania, Pennsylvania American, Bucks County Water & Sewer Authority, DELCORA and Lower Makefield.

The rates recommended by this Study will marginally close these gaps and it is a certainty that these peer entities will also adjust rates within the planning period. The recommended rate adjustment for 2023 of 8% will increase the typical Authority sewer bill of \$74.70 by \$5.94 per quarter (about 6.5 cents per day) to a revised total of \$80.64. The additional 9% rate adjustment recommended annually for 2024 through 2026 would add an average of \$7.93 per quarter to the sewer bill, bringing the revised total in 2026 to \$104.43 per quarter. Each of these adjustments is shown in Table 10 and Figure 3. The overall recommended increase from present rates to the proposed rates in 2026 amounts to about \$0.33 per day more for wastewater service.

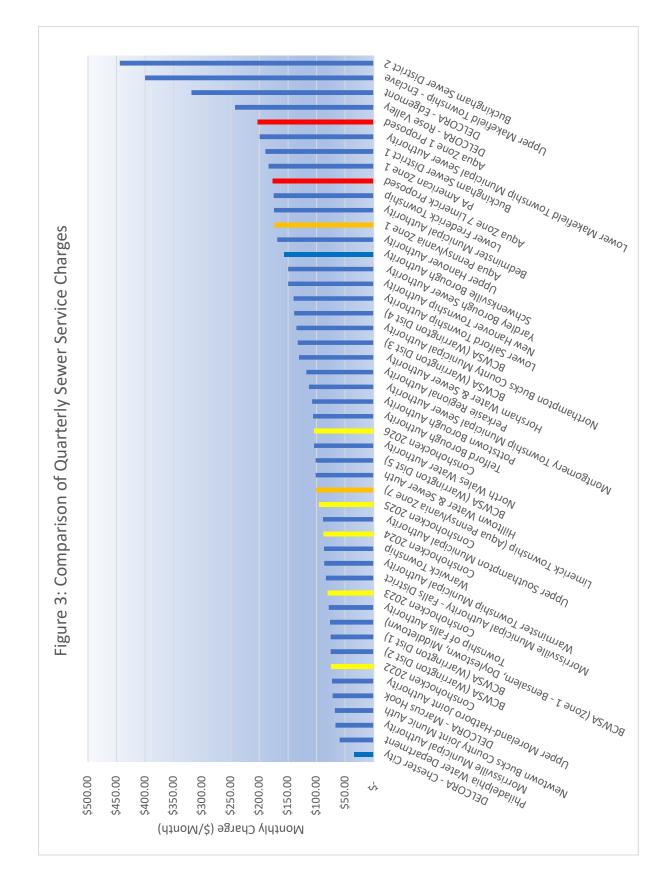
This analysis assumes that there will be no increases in the peer utility rates during this period. We note that DELCORA and Lower Makefield have entered into agreements with Aqua to sell their sewer systems to this investor-owned utility. If the DELCORA acquisition is approved by the Pennsylvania Public Utility Commission, DELCORA rates will increase by 12.55% and Aqua Wastewater rates will increase by 14.32% according to public notices already issued by Aqua and DELCORA. Similarly, in the Lower Makefield transaction, which has been approved by the Public Utility Commission, will increase by Lower Makefield rates by 28.17% and Aqua Wastewater rates by another 3.82%. Aqua Pennsylvania has a Petition before the Public Utility Commission, and a recommended decision has been issued by the Office of Administrative Law. That recommended decision, which can be modified by the Commission, will result in a 32% increase in base rates for Aqua's main service area wastewater customers, a 75% increase in Limerick wastewater rates, a 56% increase in Cheltenham wastewater rates, and a 52% increase in East Norriton rates. Aqua

is on a roughly three-year cycle of base rate adjustments, so these rates will continue to go higher and will remain well in excess of the rates recommended for the Authority in this study.

Table 10 and Figure 3 show existing Aqua Wastewater main service area quarterly bills and the bills that will result if the recommended decision in the current rate case are approved. In addition, current and proposed rates in Aqua's Limerick service area are also highlighted.

The Authority's current rates are competitive with regional peer water and sewer service providers and even with the recommended rate adjustments in 2023, 2024, 2025 and 2026. While this study recommends a series of annual rate adjustments, and the proposed 2026 rates will produce a quarterly charge of \$104.43, by comparison, the proposed 2022 rates for Aqua Pennsylvania Wastewater would produce a quarterly charge of \$203.68. This amount is 95% more than the amount recommended by this study and it should be anticipated that Aqua Pennsylvania will have two additional rate adjustments between 2022 and 2026.

System Buckingham Sewer District 2 Upper Makefield Township - Enclave DELCORA - Edgemont DELCORA - Rose Valley Aqua Zone 1 Proposed Lower Makefield Township Municipal Sewer Authority Buckingham Sewer District 1 PA American Zone 1 Aqua Zone 7 Limerick Proposed Lower Frederick Township Bedminster Municipal Authority Aqua Pennsylvania Zone 1 Upper Hanover Authority Schwenksville Borough Authority Yardley Borough Sewer Authority New Hanover Township Authority Lower Salford Township Authority	Quarter \$	rly Charge 444.27 400.00 318.75 243.00 203.68 199.81 189.63 183.67 177.07 175.00 174.28 173.51 168.75	Median 315.0% 273.7% 197.8% 127.0% 90.3% 86.7% 77.1% 71.6% 65.4% 63.5% 62.8%
Upper Makefield Township - Enclave DELCORA - Edgemont DELCORA - Rose Valley Aqua Zone 1 Proposed Lower Makefield Township Municipal Sewer Authority Buckingham Sewer District 1 PA American Zone 1 Aqua Zone 7 Limerick Proposed Lower Frederick Township Bedminster Municipal Authority Aqua Pennsylvania Zone 1 Upper Hanover Authority Schwenksville Borough Authority Yardley Borough Sewer Authority New Hanover Township Authority Lower Salford Township Authority	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	400.00 318.75 243.00 203.68 199.81 189.63 183.67 177.07 175.00 174.28 173.51	273.7% 197.8% 127.0% 90.3% 86.7% 77.1% 71.6% 65.4% 63.5%
DELCORA - Edgemont DELCORA - Rose Valley Aqua Zone 1 Proposed Lower Makefield Township Municipal Sewer Authority Buckingham Sewer District 1 PA American Zone 1 Aqua Zone 7 Limerick Proposed Lower Frederick Township Bedminster Municipal Authority Aqua Pennsylvania Zone 1 Upper Hanover Authority Schwenksville Borough Authority Yardley Borough Sewer Authority New Hanover Township Authority Lower Salford Township Authority	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	318.75 243.00 203.68 199.81 189.63 183.67 177.07 175.00 174.28 173.51	197.8% 127.0% 90.3% 86.7% 77.1% 71.6% 65.4% 63.5%
DELCORA - Rose Valley Aqua Zone 1 Proposed Lower Makefield Township Municipal Sewer Authority Buckingham Sewer District 1 PA American Zone 1 Aqua Zone 7 Limerick Proposed Lower Frederick Township Bedminster Municipal Authority Aqua Pennsylvania Zone 1 Upper Hanover Authority Schwenksville Borough Authority Yardley Borough Sewer Authority New Hanover Township Authority Lower Salford Township Authority	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	243.00 203.68 199.81 189.63 183.67 177.07 175.00 174.28 173.51	127.0% 90.3% 86.7% 77.1% 71.6% 65.4% 63.5%
Aqua Zone 1 Proposed Lower Makefield Township Municipal Sewer Authority Buckingham Sewer District 1 PA American Zone 1 Aqua Zone 7 Limerick Proposed Lower Frederick Township Bedminster Municipal Authority Aqua Pennsylvania Zone 1 Upper Hanover Authority Schwenksville Borough Authority Yardley Borough Sewer Authority New Hanover Township Authority Lower Salford Township Authority	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	203.68 199.81 189.63 183.67 177.07 175.00 174.28 173.51	90.3% 86.7% 77.1% 71.6% 65.4% 63.5%
Lower Makefield Township Municipal Sewer Authority Buckingham Sewer District 1 PA American Zone 1 Aqua Zone 7 Limerick Proposed Lower Frederick Township Bedminster Municipal Authority Aqua Pennsylvania Zone 1 Upper Hanover Authority Schwenksville Borough Authority Yardley Borough Sewer Authority New Hanover Township Authority Lower Salford Township Authority	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	199.81 189.63 183.67 177.07 175.00 174.28 173.51	86.7% 77.1% 71.6% 65.4% 63.5%
Buckingham Sewer District 1 PA American Zone 1 Aqua Zone 7 Limerick Proposed Lower Frederick Township Bedminster Municipal Authority Aqua Pennsylvania Zone 1 Upper Hanover Authority Schwenksville Borough Authority Yardley Borough Sewer Authority New Hanover Township Authority Lower Salford Township Authority	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	189.63 183.67 177.07 175.00 174.28 173.51	77.1% 71.6% 65.4% 63.5%
PA American Zone 1 Aqua Zone 7 Limerick Proposed Lower Frederick Township Bedminster Municipal Authority Aqua Pennsylvania Zone 1 Upper Hanover Authority Schwenksville Borough Authority Yardley Borough Sewer Authority New Hanover Township Authority Lower Salford Township Authority	\$ \$ \$ \$ \$ \$ \$ \$	183.67 177.07 175.00 174.28 173.51	71.6% 65.4% 63.5%
Aqua Zone 7 Limerick Proposed Lower Frederick Township Bedminster Municipal Authority Aqua Pennsylvania Zone 1 Upper Hanover Authority Schwenksville Borough Authority Yardley Borough Sewer Authority New Hanover Township Authority Lower Salford Township Authority	\$ \$ \$ \$ \$ \$	177.07 175.00 174.28 173.51	65.4% 63.5%
Lower Frederick Township Bedminster Municipal Authority Aqua Pennsylvania Zone 1 Upper Hanover Authority Schwenksville Borough Authority Yardley Borough Sewer Authority New Hanover Township Authority Lower Salford Township Authority	\$ \$ \$ \$ \$	175.00 174.28 173.51	63.5%
Bedminster Municipal Authority Aqua Pennsylvania Zone 1 Upper Hanover Authority Schwenksville Borough Authority Yardley Borough Sewer Authority New Hanover Township Authority Lower Salford Township Authority	\$ \$ \$ \$	174.28 173.51	
Aqua Pennsylvania Zone 1 Upper Hanover Authority Schwenksville Borough Authority Yardley Borough Sewer Authority New Hanover Township Authority Lower Salford Township Authority	\$ \$ \$	173.51	62.8%
Upper Hanover Authority Schwenksville Borough Authority Yardley Borough Sewer Authority New Hanover Township Authority Lower Salford Township Authority	\$ \$		
Schwenksville Borough Authority Yardley Borough Sewer Authority New Hanover Township Authority Lower Salford Township Authority	\$	168.75	62.1%
Yardley Borough Sewer Authority New Hanover Township Authority Lower Salford Township Authority		1	57.6%
New Hanover Township Authority Lower Salford Township Authority	\$	157.29	46.9%
Lower Salford Township Authority		150.00	40.1%
· · · · ·	\$	150.00	40.1%
	\$	140.00	30.8%
BCWSA (Warrington Dist 4)	\$	139.27	30.1%
Northampton Bucks County Municipal Authority	\$	135.45	26.5%
BCWSA (Warrington Dist 3)	\$	133.24	24.5%
Horsham Water & Sewer Authority	\$	130.89	22.3%
Perkasie Regional Authority	\$	117.85	10.1%
Montgomery Township Municipal Sewer Authority	\$	113.15	5.7%
Pottstown Borough Authority	\$	107.89	0.8%
Telford Borough Authority	\$	106.20	-0.8%
Conshohocken 2026	\$	104.43	-2.4%
North Wales Water Authority	\$	104.34	-2.5%
BCWSA (Warrington Dist 5)	\$	101.60	-5.1%
Hilltown Water & Sewer Auth	\$	101.45	-5.2%
Limerick Township (Aqua Pennsylvania Zone 7)	\$	101.19	-5.5%
Conshohocken 2025	\$	95.81	-10.5%
Upper Southampton Municipal Authority	\$	88.74	-17.1%
Conshohocken 2024	\$	87.89	-17.9%
Warwick Township	\$	87.19	-18.6%
Warminster Township Municipal Authority	\$	86.41	-19.3%
Morrissville Municipal Authority - Falls District	\$	83.97	-21.6%
Conshohocken 2023	\$	80.64	-24.7%
Township of Falls Authority	\$	78.71	
• •	\$		-26.5%
BCWSA (Zone 1 - Bensalem, Doylestown, Middletown)		76.60	-28.4%
BCWSA (Warrington Dist 1)	\$	75.35	-29.6%
BCWSA (Warrington Dist 2)	\$	75.35	-29.6%
Conshohocken 2022	\$	74.70	-30.2%
Upper Moreland-Hatboro Joint Authority	\$	72.93	-31.9%
DELCORA - Marcus Hook	\$	71.92	-32.8%
Newtown Bucks County Joint Munic Auth	\$	68.00	-36.5%
Morrissville Municipal Authority	\$	67.14	-37.3%
Philadelphia Water Department DELCORA - Chester City	\$ \$	59.57	-44.4%



APPENDIX A: Water Use Normalization and Forecast

Year	Quarter	Rainfall (in)	CDD	EDUs	Consumption Volume (CG)	Days	Average Use Per Customer (Gal/EDU/Day)
2015	31-Mar-15	9.38	-	4899	514,669	90	116.73
2015	30-Jun-15	12.18	294.00	5293	536,300	91	111.34
2015	30-Sep-15	12.02	723.00	5307	570,527	92	116.85
2015	31-Dec-15	10.17	-	5323	590,436	92	120.57
2016	31-Mar-16	9.38	-	5247	535,650	91	112.18
2016	30-Jun-16	9.96	213.00	5334	538,008	91	110.84
2016	30-Sep-16	12.11	897.00	5341	582,406	92	118.53
2016	31-Dec-16	6.96	10.00	5230	585,195	92	121.62
2017	31-Mar-17	8.34	-	5260	541,073	90	114.30
2017	30-Jun-17	12.43	208.00	5356	505,315	91	103.68
2017	30-Sep-17	14.92	638.00	5361	595,401	92	120.72
2017	31-Dec-17	7.67	27.00	5388	583,650	92	117.74
2018	31-Mar-18	12.49	-	5336	513,338	90	106.89
2018	30-Jun-18	14.85	247.00	5382	467,630	91	95.48
2018	30-Sep-18	25.92	842.00	5387	470,234	92	94.88
2018	31-Dec-18	16.75	9.00	5329	564,395	92	115.12
2019	31-Mar-19	12.04	-	5420	488,452	90	100.13
2019	30-Jun-19	16.20	223.00	5402	468,498	91	95.30
2019	30-Sep-19	11.76	805.00	4946	533,404	92	117.22
2019	31-Dec-19	12.82	13.00	5343	544,255	92	110.72
2020	31-Mar-20	9.72	-	5383	491,614	91	100.36
2020	30-Jun-20	11.07	215.00	5416	474,214	91	96.22
2020	30-Sep-20	16.34	829.00	5383	548,119	92	110.68
2020	31-Dec-20	12.58	9.00	5393	569,204	92	114.72
2021	31-Mar-21	9.83	-	5392	451,371	90	93.01
2021	30-Jun-21	9.62	241.00	5390	491,850	91	100.28
2021	30-Sep-21	20.57	802.00	5377	533,556	92	107.86
2021	31-Dec-21	6.24	35.00	5532	604,597	92	118.79
Li	inear Regression S	tatistics					
	0.99991	1.00009	0.98998	0.99997	771.96364		
	0.00013	0.00006	0.00441	0.00002	0.86863		
	0.36308	0.07390	#N/A	#N/A	#N/A		
	3.27781	23.00000	#N/A	#N/A	#N/A		
	0.07160	0.12560	#N/A	#N/A	#N/A		

onshohocken I	Forecast						
Year	Quarter	Rainfall (in)	CDD	EDUs	Consumption Volume (CG)	Days	Average Use Per Customer (Gal/EDU/Day)
2022	31-Mar-22	10.17	-	5,540	510,410	90	102.36
2022	30-Jun-22	12.33	234.43	5,545	514,236	91	101.91
2022	30-Sep-22	16.23	790.86	5,550	523,621	92	102.55
2022	31-Dec-22	10.46	14.71	5,555	517,099	92	101.18
2023	31-Mar-23	10.17	-	5,560	505,450	90	101.01
2023	30-Jun-23	12.33	234.43	5,565	509,238	91	100.56
2023	30-Sep-23	16.23	790.86	5,570	518,529	92	101.20
2023	31-Dec-23	10.46	14.71	5,574	512,069	92	99.85
2024	31-Mar-24	10.17	-	5,579	506,078	91	99.68
2024	30-Jun-24	12.33	234.43	5,584	504,266	91	99.23
2024	30-Sep-24	16.23	790.86	5,589	513,465	92	99.86
2024	31-Dec-24	10.46	14.71	5,594	507,067	92	98.53
2025	31-Mar-25	10.17	-	5,599	495,641	90	98.36
2025	30-Jun-25	12.33	234.43	5,604	499,352	91	97.93
2025	30-Sep-25	16.23	790.86	5,608	508,460	92	98.54
2025	31-Dec-25	10.46	14.71	5,613	502,123	92	97.23
2026	31-Mar-26	10.17	-	5,618	490,807	90	97.07
2026	30-Jun-26	12.33	234.43	5,623	494,480	91	96.63
2026	30-Sep-26	16.23	790.86	5,628	503,498	92	97.24
2026	31-Dec-26	10.46	14.71	5,633	497,221	92	95.95

Year	ocken Actual Quarter	Rainfall (in)	CDD	EDU's	Consumption Volume (CG)	Days	Average Use Per Customer (Gal/EDU/Day
	ĺ	ĺ					
2018	31-Mar-18	12.49	-	680	153,426	90	250.70
2018	30-Jun-18	14.85	247.00	696	142,686	91	225.28
2018	30-Sep-18	25.92	842.00	693	200,889	92	315.09
2018	31-Dec-18	16.75	9.00	704	159,152	92	245.73
2019	31-Mar-19	12.04	-	712	144,360	90	225.28
2019	30-Jun-19	16.20	223.00	714	140,039	91	215.53
2019	30-Sep-19	11.76	805.00	705	179,073	92	276.09
2019	31-Dec-19	12.82	13.00	711	174,341	92	266.53
2020	31-Mar-20	9.72	-	719	137,523	91	210.1
2020	30-Jun-20	11.07	215.00	723	123,831	91	188.2
2020	30-Sep-20	16.34	829.00	1283	141,527	92	119.9
2020	31-Dec-20	12.58	9.00	1279	124,496	92	105.8
2021	31-Mar-21	9.83	-	1185	109,818	90	102.9
2021	30-Jun-21	9.62	241.00	1272	107,541	91	92.9
2021	30-Sep-21	20.57	802.00	1280	147,758	92	125.4
2021	31-Dec-21	6.24	35.00	1285	144,269	92	122.0
	Linear Regressi	on Statistics					
	0.9985	1.0001	1.0135	1.0001	1.0000		
	0.0001	0.0001	0.0095	0.0000	#N/A		
	0.9996	0.1269	#N/A	#N/A	#N/A		
	6,724.5982	12.0000	#N/A	#N/A	#N/A		
	433.1913	0.1933	#N/A	#N/A	#N/A		

st Conshoh	ocken Forecas	t					
Year	Quarter	Rainfall (in)	CDD	EDU's	Consumption Volume (CG)	Days	Average Use Per Customer (Gal/EDU/Day
2022	31-Mar-22	10.17	-	1,283	121,455	90	105.23
2022	30-Jun-22	12.33	234.43	1,284	131,826	91	112.84
2022	30-Sep-22	16.23	790.86	1,285	152,526	92	129.0
2022	31-Dec-22	10.46	14.71	1,286	129,625	92	109.5
2023	31-Mar-23	10.17	-	1,287	127,636	90	110.1
2023	30-Jun-23	12.33	234.43	1,288	138,535	91	118.1
2023	30-Sep-23	16.23	790.86	1,289	160,288	92	135.1
2023	31-Dec-23	10.46	14.71	1,291	136,221	92	114.7
2024	31-Mar-24	10.17	-	1,292	135,641	91	115.3
2024	30-Jun-24	12.33	234.43	1,293	145,604	91	123.7
2024	30-Sep-24	16.23	790.86	1,294	168,467	92	141.5
2024	31-Dec-24	10.46	14.71	1,295	143,172	92	120.1
2025	31-Mar-25	10.17	-	1,296	140,974	90	120.8
2025	30-Jun-25	12.33	234.43	1,297	153,011	91	129.6
2025	30-Sep-25	16.23	790.86	1,299	177,036	92	148.1
2025	31-Dec-25	10.46	14.71	1,300	150,453	92	125.8
2026	31-Mar-26	10.17	-	1,301	148,144	90	126.5
2026	30-Jun-26	12.33	234.43	1,302	160,792	91	135.7
2026	30-Sep-26	16.23	790.86	1,303	186,038	92	155.1
2026	31-Dec-26	10.46	14.71	1,304	158,104	92	131.7

Quarter	Rainfall (In)	CDD	EDU's	Average Use Per Customer (Gal/EDU/Day)	Consumption (CG)
31-Mar-15	9.38	-	4899	116.73	514,669
30-Jun-15	12.18	294.00	5293	111.34	536,300
30-Sep-15	12.02	723.00	5307	116.85	570,527
31-Dec-15	10.17	-	5323	120.57	590,436
31-Mar-16	9.38	-	5247	112.18	535,650
30-Jun-16	9.96	213.00	5334	110.84	538,008
30-Sep-16	12.11	897.00	5341	118.53	582,406
31-Dec-16	6.96	10.00	5230	121.62	585,195
31-Mar-17	8.34	-	5260	114.30	541,073
30-Jun-17	12.43	208.00	5356	103.68	505,315
30-Sep-17	14.92	638.00	5361	120.72	595,401
31-Dec-17	7.67	27.00	5388	117.74	583,650
31-Mar-18	12.49	-	6016	123.15	666,764
30-Jun-18	14.85	247.00	6078	110.35	610,316
30-Sep-18	25.92	842.00	6080	119.98	671,123
31-Dec-18	16.75	9.00	6033	130.36	723,547
31-Mar-19	12.04	-	6132	114.66	632,812
30-Jun-19	16.20	223.00	6116	109.34	608,537
30-Sep-19	11.76	805.00	5651	137.04	712,477
31-Dec-19	12.82	13.00	6054	129.02	718,596
31-Mar-20	9.72	-	6102	113.30	629,137
30-Jun-20	11.07	215.00	6139	107.05	598,045
30-Sep-20	16.34	829.00	6666	112.45	689,646
31-Dec-20	12.58	9.00	6672	113.01	693,700
31-Mar-21	9.83	-	6577	94.81	561,189
30-Jun-21	9.62	241.00	6662	98.87	599,391
30-Sep-21	20.57	802.00	6657	111.25	681,314
31-Dec-21	6.24	35.00	6817	119.41	748,866
inear Regression	Statistics				
0.99987679	0.9999988	1.00494166	1.00006109	15.77	
8.09356E-05	5.8269E-05	0.00495323	5.9176E-05	2.14	
0.154902388	0.07732153	#N/A	#N/A	#N/A	
1.053947758	23	#N/A	#N/A	#N/A	
0.025204606	0.13750822	, #N/A	, #N/A	#N/A	

gregate Foreca	ast					
Quarter	Rainfall (In)	CDD	EDU's	Average Use Per Customer (Gal/EDU/Day)	Days	Consumption (CG)
31-Mar-22	10.17	-	6,823	109.47	90	672,204
30-Jun-22	12.33	234.43	6,829	111.14	91	690,686
30-Sep-22	16.23	790.86	6,835	113.78	92	715,480
31-Dec-22	10.46	14.71	6,841	111.23	92	700,052
31-Mar-23	10.17	-	6,847	111.60	90	687,742
30-Jun-23	12.33	234.43	6,853	113.31	91	706,649
30-Sep-23	16.23	790.86	6,859	116.00	92	732,014
31-Dec-23	10.46	14.71	6,865	113.40	92	716,228
31-Mar-24	10.17	-	6,871	113.79	91	711,493
30-Jun-24	12.33	234.43	6,877	115.53	91	723,017
30-Sep-24	16.23	790.86	6,883	118.28	92	748,967
31-Dec-24	10.46	14.71	6,889	115.62	92	732,813
31-Mar-25	10.17	-	6,895	116.01	90	719,923
30-Jun-25	12.33	234.43	6,901	117.79	91	739,709
30-Sep-25	16.23	790.86	6,907	120.59	92	766,257
31-Dec-25	10.46	14.71	6,913	117.88	92	749,728
31-Mar-26	10.17	-	6,919	118.28	90	736,537
30-Jun-26	12.33	234.43	6,925	120.09	91	756,778
30-Sep-26	16.23	790.86	6,931	122.94	92	783,936
31-Dec-26	10.46	14.71	6,937	120.18	92	767,023