TOWN OF NORTHBOROUGH

FY 2023 Water and Sewer Rate Study Report

Draft Report / August 8, 2022





July 28, 2022

Mr. Scott Charpentier, P.E. Director of Public Works Town of Northborough, MA 63 Main Street Northborough, MA 01532

Subject: FY 2023 Water and Sewer Rate Study Report - DRAFT

Dear Mr. Charpentier,

Raftelis is pleased to present this report describing the assumptions and findings of our FY 2023 Water and Sewer Rate Study (Study) performed for the Town of Northborough (Town). We would like to take this opportunity to thank you and your staff for the efforts and participation you put forth during the Study.

The major objectives of the Study included the development of financial plans for the water and sewer enterprises to ensure financial sufficiency, meet operation and maintenance (0&M) costs, ensure sufficient funding for capital renewal and replacement (R&R) needs, and improve the financial health of the enterprises through adequate reserve fund balances and debt service coverage.

This report summarizes the key findings and recommendations related to the development of the financial plans for the water and sewer utilities and our review and recommended rate increases required to support those plans.

It has been a pleasure working with you, and we thank you and other Town staff for the support provided during the course of this study.

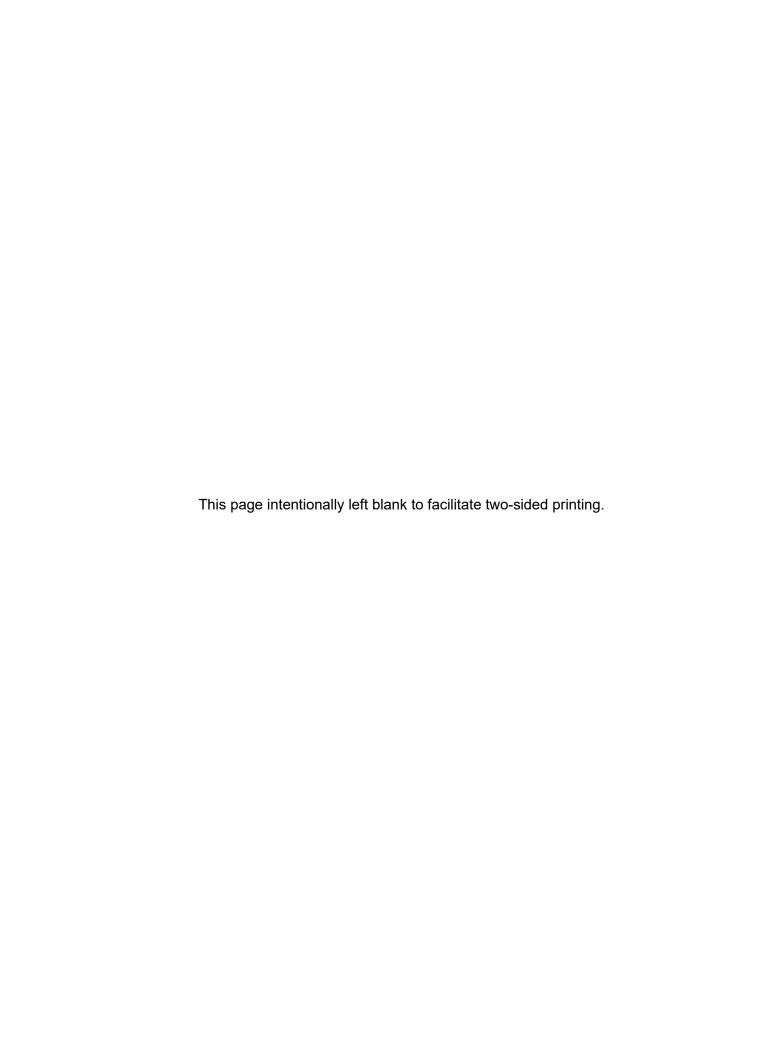
Sincerely, *Raftelis*

Dave Fox

Senior Manager

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1. FINANCIAL PLAN

The first step in the rate setting process was the development of financial plans, which included establishing a forecast of revenue requirements, determining the necessary revenue increases using demand projections, and examining the forecasted operating results over the five-year forecast period (FY 2023 – FY 2027).

1.1 REVENUE REQUIREMENTS

The first major task in establishing a financial plan is developing an understanding of the revenue requirements of the utility over the forecast period. Requirements are comprised of cash-based expenses including: 0&M expenses, annual debt service payments, cash-funded capital, and contributions to utility reserve funds.

1.1.1 Operating Expenses

0&M expenses represent normal, recurring expenses necessary to sustainably operate and maintain the system during the Town's annual accounting cycle, which is a Fiscal Year ending June 30th. The FY 2023 operating budget was provided to Raftelis by Town Staff and serves as the baseline for the projection of utility operating costs.

To develop a five-year forecast of system operating costs and account for growing utility costs and inflation, escalation factors are used for each major operating expense category. These escalation factors range between zero and three and a half percent throughout the five-year forecast period. These cost escalation factors are consistent with historical trends seen in the consumer price index, construction cost index, and actual Town historical expenses.

For the Town's water utility, the Massachusetts Water Resources Authority (MWRA) assessments are by far the largest line item cost. The MWRA assessments are based on the Authority's annual budget and Northborough's share of historic annual water use. The increases from year to year will thus depend on the Authority's annual cost increases and how Northborough's water purchases compare to other communities. For FY 2023, we have used the final assessment projections as published by the MWRA. To project these expenses for future years, we used the final assessment from FY 2023, plus a 3.5% increase per year. The Town's water MWRA assessment is significantly lower than the FY 2022 assessment. The financial impact of this change is discussed later in the report.

The only exception to the escalation factors described above is the projection of costs paid to the City of Marlborough (City). Northborough discharges its sewage to the City's Westerly Wastewater Treatment Plant (WWTP). The Town's share of these costs is the largest operating cost, amounting to approximately 50% of sewer operating costs currently. The City upgraded the WWTP several years ago, and recently, Marlborough unilaterally began to bill the Town of Northborough at rates charged to outside-City retail users. This is clearly unfair as Northborough discharges directly to the WWTP and makes no use of the City's retail sewers or billing and administrative systems. Until this matter is resolved, we have simply continued to estimate an increase of the City's charges to the Town (that were based on the expired intermunicipal agreement) by 3% per year.

The projection of Northborough's sewer expenses are further complicated by the lack of an intermunicipal agreement with the City of Marlborough and questions about Northborough's share of the \$30 million upgrade/expansion of the WWTP. It is unclear what share of the \$30 million upgrade and expansion bonds will be the responsibility of Northborough. In part, this will depend on the share of capacity made available to Northborough, but this cannot be resolved until Marlborough knows the full permitted capacity of the WWTP. The portion of debt that Northborough may be responsible for is further complicated because a portion of the upgrade and expansion costs were funded by a grant to Marlborough. The City maintains that this grant only goes toward the City's share of costs and Northborough gets no credit for it.

For purposes of our rate projections, we are assuming that Northborough may be responsible for up to 50% of the City's new debt service for the WWTP. Marlborough began payment on a \$1.2 million loan in FY 2011. In FY 2013, Marlborough began its payments on the second (\$19.99 million) Water Pollution Abatement Trust (WPAT) loan. It is unclear if or when Northborough may have to reimburse Marlborough for a share of past payments on these two loans. We have assumed that approximately \$4.68 million may be due to Marlborough in FY 2023. If this back-payment is made to Marlborough, we have assumed it will be made from the existing sewer reserves.

1.1.2 Capital Improvement Plan

One of the major components of establishing a financial plan was incorporating the Town's water and sewer Capital Improvement Plans (CIP) and corresponding capital financing plan based on the anticipated capital expenditures for the system over the forecast period.

The Town provided Raftelis with separate water and sewer system CIPs for the forecast period. Major elements of the water CIP include reservoir dam compliance projects and tractor and truck purchases. The water CIP identifies about \$437K in capital expenditures from FY 2023 to FY 2027.

Major elements of the sewer CIP include improvements to inflow and infiltration mitigation and a truck purchase. The sewer system CIP includes about \$963K in capital costs over the forecast period (FY 2023 to FY 2027).

In addition to the water and sewer system CIP's, the Town provided Raftelis with its proposed financing plan. Funding for system projects is expected to be addressed through a combination of debt and cash financing. The sources of funding include general obligation bonds, Massachusetts State Revolving Fund (SRF) loans, and cash or pay-as-you-go (PAYGO) funded. Exhibit 1 summarizes the CIP funding sources.

Exhibit 1: Capital Improvement & Financing Plan

	FY 2023 Forecast			FY 2024 Forecast	FY 2025 Forecast	FY 2026 Forecast	FY 2027 Forecast	
Water Total Anticipated Capital Needs	\$	-	\$	305,000	\$ 72,000	\$ 60,000	\$ -	
Funding Sources Debt (General Obligation) Debt (SRF) Cash (PAYGO)	\$	- - -	\$	200,000 105,000	\$ - - 72,000	\$ - - 60,000	\$ - - -	
Subtotal: Funding Sources	\$	-	\$	305,000	\$ 72,000	\$ 60,000	\$ -	
Sewer Total Anticipated Capital Needs	\$	-	\$	70,000	\$ 428,000	\$ 40,000	\$ 425,000	
Funding Sources Debt (General Obligation) Debt (SRF) Cash (PAYGO)	\$	- - -	\$	- - 70,000	\$ 380,000 48,000	\$ - - 40,000	\$ - 425,000 -	
Subtotal: Funding Sources	\$	-	\$	70,000	\$ 428,000	\$ 40,000	\$ 425,000	

1.1.3 Total Revenue Requirements

The total revenue requirements, O&M expenses, the existing and proposed annual debt service, and the cashfunded capital discussed in the proceeding sections are shown separately for water and sewer below (Exhibit 2 and 3, respectively) in the projection of revenue requirements for the forecast period.

Exhibit 2: Water System Revenue Requirements

•	FY 2023 Budget			FY 2024 Forecast	FY 2025 Forecast	FY 2026 Forecast			FY 2027 Forecast		
Water Revenue Requirements											
Operating Expenses											
Salaries	\$	313,693	\$	321,535	\$ 329,574	\$	337,813	\$	346,258		
Benefits		107,322		110,005	112,755		115,574		118,463		
Supplies		72,040		102,040	132,040		132,040		132,040		
Equipment		18,000		18,000	18,000		18,000		18,000		
Energy		30,045		30,646	31,259		31,884		32,522		
Misc. Operating		274,124		299,124	324,124		324,124		324,124		
MWRA Assessment		1,508,715		1,561,520	1,616,173		1,672,739		1,731,285		
Subtotal: Operating Expenses	\$	2,323,939	\$	2,442,870	\$ 2,563,925	\$	2,632,174	\$	2,702,693		
Debt Service											
Existing Debt											
Senior Debt Service	\$	312,164	\$	227,264	\$ 221,199	\$	185,008	\$	176,428		
Subordinate Debt Service		-		-	-		-		-		
Subtotal: Existing Debt	\$	312,164	\$	227,264	\$ 221,199	\$	185,008	\$	176,428		
Proposed Debt											
General Obligation	\$	_	\$	_	\$ _	\$	-	\$	_		
SRF Loans		-		-	13,443	Ċ	13,443		13,443		
Subtotal: Proposed Debt	\$	-	\$	-	\$ 13,443	\$	13,443	\$	13,443		
Subtotal: Debt Service	\$	312,164	\$	227,264	\$ 234,642	\$	198,451	\$	189,871		
Other Expenditures											
Rate Funded Capital (PAYGO)	\$	-	\$	105,000	\$ 72,000	\$	60,000	\$	-		
Subtotal: Other Expenditures	\$	-	\$	105,000	\$ 72,000	\$	60,000	\$	-		
Total: Water Revenue Requirements	\$	2,636,103	\$	2,775,134	\$ 2,870,567	\$	2,890,625	\$	2,892,563		

Exhibit 3: Sewer System Revenue Requirements

	FY 2023			FY 2024		FY 2025		FY 2026	FY 2027		
Sewer Revenue Requirements		Budget		Forecast		Forecast		Forecast		Forecast	
Operating Expenses											
Salaries	\$	177,256	\$	181,687	\$	186,230	\$	190,885	\$	195,657	
Benefits		103,753		106,347		109,006		111,731		114,524	
Supplies		47,760		47,760		47,760		47,760		47,760	
Equipment		41,000		41,000		41,000		41,000		41,000	
Chemicals		-		-		-		-		-	
Energy		67,030		68,371		69,738		71,133		72,555	
Misc. Operating		357,073		358,848		360,640		362,450		364,279	
Marlborough Costs		1,314,555	_	1,341,392		1,369,033		1,397,504		1,426,830	
Subtotal: Operating Expenses	\$	2,108,427	\$	2,145,404	\$	2,183,407	\$	2,222,463	\$	2,262,605	
Debt Service											
Existing Debt											
Senior Debt Service	\$	634,061	\$	610,165	\$	590,975	\$	444,840	\$	433,135	
Subordinate Debt Service	_		_		_		_		_		
Subtotal: Existing Debt	\$	634,061	\$	610,165	\$	590,975	\$	444,840	\$	433,135	
Proposed Debt											
General Obligation	\$	-	\$	-	\$	-	\$	-	\$	-	
SRF Loans								25,542		25,542	
Subtotal: Proposed Debt	\$	_	\$	-	\$	_	\$	25,542	\$	25,542	
Subtotal: Debt Service	\$	634,061	\$	610,165	\$	590,975	\$	470,382	\$	458,677	
Other Expenditures											
Rate Funded Capital (PAYGO)	\$	-	\$	70,000	\$	48,000	\$	40,000	\$	-	
Transfer for Reserve/Unforeseen Expenses		-		-		-		-		-	
Subtotal: Other Expenditures	\$	-	\$	70,000	\$	48,000	\$	40,000	\$	-	
Total: Sewer Revenue Requirements	\$	2,742,488	\$	2,825,569	\$	2,822,382	\$	2,732,846	\$	2,721,282	

1.2 REVENUES

The Town collects revenue from several sources. Operating revenues consist primarily of revenues from water and sewer retail rates and charges. Other revenues include those coming from water and sewer connection fees, investment income, and other miscellaneous revenue sources.

1.2.1 Demand for Services

To estimate system user charge revenue, a customer demand forecast must be developed and applied to utility rates and charges. To calculate demand, Raftelis reviewed the Town's historical demand and customer growth and projected future demand for service over the forecast period. Detailed billing data was provided to Raftelis by the Town. Raftelis then analyzed the detailed billing data to develop the demand forecast used in the model.

After discussions with Town staff, it was agreed that Raftelis would assume the following customer growth and usage assumptions over the forecast period. Customer accounts are projected to remain flat throughout the duration of the forecast due to normal loss and gain of customers. Customer usage is projected to reduce by 1 percent annually. As with all assumptions, we recommend revisiting these forecasts annually to address current trends.

1.2.2 User Charge Revenues

Operating revenues are generated primarily from user rates and charges assessed to retail customers. General customer classes include residential, commercial, and industrial. Revenue from each of these customer classes has been forecast by using projected customer billing demand data over the study period and by applying the annual adjustments to the user rates and charges.

Revenues for FY 2023 have been projected based on the projected number of customer bills and billable units and the rates in place during FY 2022. The remaining years of the forecast period (FY 2023 – FY 2027) have been projected in the same way, using the projected number of bills and billable units of service and the future rates, to be discussed in later sections.

1.2.3 Other Revenues

In addition to user charge revenues, the Town collects revenue from connection fees, other department revenue, and investment income. For our financial planning forecast, the revenue is based on actual collected amounts in FY 2022, with no projected increases of miscellaneous revenues in the five-year forecast.

1.3 REVENUE SUFFICIENCY & RATE RECOMMENDATIONS

The most important element to any rate study is to ensure that a utility generates revenues that are sufficient for the operation of the system. Once the revenue requirements for user charges have been forecasted over the forecast period, the next step was determining the ability of the existing user charges to recover sufficient revenues to fully meet the anticipated operating and capital needs of the utility.

Based on the assumptions laid out in this report, the Town's existing water rates will not be sufficient to recover the system revenue requirements over the forecast period. To achieve revenue sufficiency, rate increases are needed. Raftelis has assumed rate revenue increases for the duration of the forecast period. In order to fund system revenue requirements and meet reserve fund balance targets, rate increases will be needed for the duration of the forecast period (FY 2023 – FY 2027). Raftelis recommends that the Town reevaluate these revenues annually to ensure that they continue to sufficiently recover utility costs.

Although additional revenue is required for the water utility in FY 2023, Raftelis is not recommending an across-the-board increase to both the water utility's fixed and volumetric charges. Raftelis recommends increasing the base charge by 12.50% in FY 2023, which would increase the residential base charge by two dollars per quarter. Raftelis also recommends increasing the water volumetric charges by 3.00%. However, because the Town recovers approximately 12% of its water revenues from fixed charges, it should endeavor to increase it closer to the national average for revenue collected from fixed charges of approximately 30%. This helps offset the effects of potential reductions in consumption by providing greater revenue stability. Exhibit 4 below presents the Town's existing water rates compared to those proposed for FY 2023.

Exhibit 4: Existing and Proposed Water Rates

	<u>2022</u>	Y 2023 roposed	Quarterly Increase % Change \$ Change
Quarterly Water Rates	5	•	5 , 5
Base Charges			
Residential	\$ 16.00	\$ 18.00	12.50% \$ 2.00
Commercial	48.00	54.00	12.50% 6.00
Industrial	73.00	82.00	12.33% 9.00
Volume Charges (per 1,000 cf)			
Tier 1 (0 - 2,000 cf)	\$ 51.49	\$ 53.03	2.99% \$ 1.54
Tier 2 (2,000 - 6,000 cf)	61.71	63.56	3.00% 1.85
Tier 3 (over 6,000 cf)	76.05	78.33	3.00% 2.28
Quarterly Sewer Rates			
Volume Charges (per 1,000 cf)			
Tier 1 (0 - 2,000 cf)	\$ 119.07	\$ 119.07	0.00% \$ -
Tier 2 (2,000 - 6,000 cf)	123.66	123.66	0.00%
Tier 3 (over 6,000 cf)	129.18	129.18	0.00% -
Sewer Only Flat Rate	\$ 220.00	\$ 220.00	0.00% \$ -

Raftelis recommends no sewer rate increase in FY 2023, followed by 4% increases to rates through FY 2027. As will all prior studies, rates for years outside of the immediate FY should be reevaluated annually with the most up-to-date information.

Assuming the proposed FY 2023 rates, Exhibit 5 presents the quarterly water and sewer bill impacts for the Town's average residential customer using 1,900 cubic feet (cf) per quarter.

Residential Customer Bill (19 Ccf / Quarter) \$400 \$345 \$340 \$350 \$300 \$250 \$226 \$226 \$200 \$150 \$100 \$119 \$114 \$50 \$-FY 2022 FY 2023 ■ Water Sewer

Exhibit 5: Quarterly Combined Bill Impacts

With regard to the reserve fund balance targets, Raftelis in conjunction with Town staff, have established an annual reserve fund target of 75 days of total annual revenue requirements for each utility. There are no industry standards for the exact amount of reserves water and sewer utilities should maintain. The amount depends on the amount of revenue risk mitigation the utility feels most comfortable with. Within the industry,

a typical range of days of total annual revenue requirements maintained are between 35 and 150 days. Based on our experiences and staff's inputs we have recommended a minimum reserve of 75 days.

Based on the projected revenue requirements (Section 1.1) and the projected revenues (Section 1.2), the following exhibits, Exhibit 6 and Exhibit 7, shows the projected financial plans for both the water and sewer utilities. It should be noted that in years where the Water fund is operating in a revenue deficit, the additional revenue required to balance the budget will be utilized from the Operating Reserve. Conversely, in years where there is a revenue surplus, the additional funds are used to replenish the Operating Reserve.

Exhibit 6: Water Financial Plan

	FY 2023 Forecast			FY 2024 Forecast	FY 2025 Forecast			FY 2026 Forecast		FY 2027 Forecast
Revenues Revenue from User Charges										
Base Charge Volumetric Rate Miscellaneous Revenues	\$	370,256 2,207,187 55,119	\$	390,968 2,272,453 55,189	\$	411,680 2,339,795 55,260	\$	433,552 2,408,972 55,331	\$	433,552 2,480,327 55,403
Total Revenues	\$	2,632,563	\$	2,718,611	\$	2,806,735	\$	2,897,855	\$	2,969,282
Revenue Requirements Operating Expenses Existing Debt Service Proposed Debt Service Pay-As-You-Go Contributions to Operating Reserve Other Total Revenue Requirements	\$	2,323,939 312,164 - - - - 2,636,103	\$	2,442,870 227,264 - 105,000 - - 2,775,134	\$	2,563,925 221,199 13,443 72,000 - - - 2,870,567	\$	2,632,174 185,008 13,443 60,000 - - 2,890,625	\$	2,702,693 176,428 13,443 - - - 2,892,563
Financial Indicators	Ψ	2,030,103	Ψ	2,775,151	Ψ	2,070,307	Ψ	2,030,023	Ψ	2,052,505
Revenue Surplus/Deficit	\$	(3,540)	\$	(56,524)	\$	(63,831)	\$	7,230	\$	76,719
Operating Reserve Fund Balance Beginning Balance Ending Balance	\$	786,128 \$782,588	\$	782,588 \$726,064	\$	726,064 662,232	\$	662,232 669,462	\$	669,462 746,181
As Days of Total Revenue Requirements Minimum Target Balance		108 <i>75</i>		95 <i>75</i>		84 <i>75</i>		85 <i>75</i>		122 <i>75</i>

Exhibit 7: Sewer Financial Plan

	ļ	FY 2023 Forecast	FY 2024 Forecast		FY 2025 Forecast		FY 2026 Forecast		FY 2027 Forecast
Revenues									
Revenue from User Charges									
Volumetric Rate	\$	2,265,480	\$ 2,332,530	\$	2,401,508	\$	2,472,585	\$	2,545,782
Sewer Only Flat Rate		158,400	164,736		171,324		178,178		185,306
Miscellaneous Revenues		115,398	115,572		115,748		115,925		116,104
Total Revenues	\$	2,539,278	\$ 2,612,838	\$	2,688,580	\$	2,766,688	\$	2,847,192
Revenue Requirements									
Operating Expenses	\$	2,108,427	\$ 2,145,404	\$	2,183,407	\$	2,222,463	\$	2,262,605
Existing Debt Service		634,061	610,165		590,975		444,840		433,135
Proposed Debt Service		-	-		-		25,542		25,542
Pay-As-You-Go		-	70,000		48,000		40,000		-
Contributions to Operating Reserve		-	-		-		-		-
Other	_	_		_		_	_	_	_
Total Revenue Requirements	\$	2,742,488	\$ 2,825,569	\$	2,822,382	\$	2,732,846	\$	2,721,282
Financial Indicators									
Revenue Surplus/Deficit	\$	(203,210)	\$ (212,731)	\$	(133,802)	\$	33,843	\$	125,910
Operating Reserve Fund Balance									
Beginning Balance	\$	7,912,519	\$ 2,666,077	\$	2,453,346	\$	2,319,544	\$	2,353,387
Operating Annual Surplus/(Deficit)	<i>\$</i>	(203,210)	(212,731)		(133,802)		33,843	, \$	125,910
Operating Reserves Used for Capital	\$	(360,000)	\$ -	\$	-	\$	-	\$	-
Marlborough Repayment	\$	(4,683,232)	\$ -	\$	-	\$	-	\$	-
Ending Balance	\$	2,666,077	\$ 2,453,346	\$	2,319,544	\$	2,353,387	\$	2,479,297
As Days of Total Revenue Requirements		355	317		300		314		400
Target		<i>75</i>	<i>75</i>		<i>75</i>		<i>75</i>		<i>75</i>

As shown, the forecast of revenues meets the forecast of revenue requirements in all years for the water enterprise. However, the forecast of revenues is less than the forecast of revenue requirements in some years for the sewer enterprise. During this time, the Town plans to use some of its reserve funding to avoid a significant, and most likely unnecessary long-term, rate increase. This is reflected in the decrease in operating reserve fund balances. Also reflected in the reduction of sewer reserve fund balances is the repayment to Marlborough, assumed to occur in FY 2023, as well as a one-time capital improvement of \$360,000. Exhibit 8 shows the projected retained earning fund balances over the forecast period.

Reserve Balances vs. Target Days of Revenue Requirements 1,800 1,600 1,400 1,200 1,000 800 600 400 200 0 FY 2022 FY 2023 FY 2024 FY 2025 FY 2026 FY 2027 ■ Water Operating Sewer Operating --- Operating Target (75 Days)

Exhibit 8: Projected Reserve Fund Balances

2. RECOMMENDATIONS

As stated in Section 1, Raftelis is recommending that the Town increase its water volumetric rate by 3.00% and increase the base charge by 12.50% in FY 2023, which would increase the residential base charge by two dollars per quarter. Raftelis is also recommending no sewer rate increase. As of now, Raftelis is projecting the need for rate increases of approximately 4% for the water and sewer utilities annually after FY 2023. As noted earlier in the report, the Town should continue to perform annual analyses to determine if these projected increases are appropriate for fiscal years 2024 through 2027, and make adjustments to the plan as necessary. As the plan stands as of the writing of this report, the following exhibit presents the forecast of water and sewer rates over the forecast.

Exhibit 9: Existing, Proposed, and Forecast Water and Sewer Rates

		2022 xistina	_	7 2023 Toposed	FY 2024 Forecast		FY 2025 Forecast		FY 2026 Forecast		_	recast
Quarterly Water Rates	_			-,								
Base Charges												
Residential	\$	16.00	\$	18.00	\$	19.00	\$	20.00	\$	21.00	\$	21.00
Commercial		48.00		54.00		57.00		60.00		64.00		64.00
Industrial		73.00		82.00		87.00		92.00		97.00		97.00
Volume Charges (per 1,000 cf)												
Tier 1 (0 - 2,000 cf)	\$	51.49	\$	53.03	\$	55.15	\$	57.36	\$	59.65	\$	62.04
Tier 2 (2,000 - 6,000 cf)		61.71		63.56		66.10		68.74		71.49		74.35
Tier 3 (over 6,000 cf)		76.05		78.33		81.46		84.72		88.11		91.63
Quarterly Sewer Rates												
Volume Charges (per 1,000 cf)												
Tier 1 (0 - 2,000 cf)	\$	119.07	\$	119.07	\$	123.83	\$	128.78	\$	133.93	\$	139.29
Tier 2 (2,000 - 6,000 cf)		123.66		123.66		128.61		133.75		139.10		144.66
Tier 3 (over 6,000 cf)		129.18		129.18		134.35		139.72		145.31		151.12
Sewer Only Flat Rate	\$	220.00	\$	220.00	\$	228.80	\$	237.95	\$	247.47	\$	257.37

Exhibit 10 presents a quarterly bill for an average residential customer over the forecast period. The average residential customer in Northborough uses approximately 1,900 cf per quarter.

Residential Customer Bill (19 Ccf / Quarter) \$450 \$404 \$389 \$374 \$400 \$359 \$345 \$340 \$350 \$300 \$265 \$254 \$245 \$250 \$235 \$226 \$226 \$200 \$150 \$100 \$139 \$134 \$129 \$119 \$124 \$114 \$50 \$-FY 2025 FY 2022 FY 2023 FY 2024 FY 2026 FY 2027 ■ Water Sewer

Exhibit 10: Average Residential Customer Impact (1,900 Cubic Feet per Quarter)

Although water and sewer rates are projected to increase annually by approximately 3 to 5%, it is important to consider these increases in context with trends in the water and sewer industry. According to the American Water Works Association/Raftelis' Bi-Annual Rate Survey, water and sewer rates have been increasing from

2010-2020 at an annualized rate of 4.8% and 4.9% percent, respectively. Even with a conservative forecast, the Town's projected increases are in line with these trends.

Rate increases of 4% annually are on par with, or below, other communities we work with across the Commonwealth, both those served by the MWRA and not. The Town is taking the steps necessary to preserve its water and sewer infrastructure, financial health of the utilities, and consistently deliver safe service to its customers. For utilities like the Town that have appropriate management and reinvestment efforts, 4% annual increases are very reasonable. This is especially true when considering the conservative nature of the financial plan due to the uncertainty of MWRA increases and the Town's agreements with Marlborough.

Although the forecast of rate increases is reasonable and on par with industry trends, the Town should continue to reevaluate its financial plan annually to make adjustments to the planned rate increases in future years accordingly.