



SANITARY DISTRICT NO. 5 OF MARIN COUNTY

FY 2023-24 Sewer Service Charge Study

April 21, 2023 – Final Report



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SANITARY DISTRICT NO. 5 OF MARIN COUNTY

2001 Paradise Drive

Tiburon, California 94920



SEWER SERVICE CHARGE STUDY

April 21 2023

HF&H CONSULTANTS, LLC

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Managing Tomorrow's Resources Today

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April 21, 2023

Tony Rubio General Manager Sanitary District No. 5 of Marin County 2001 Paradise Drive Tiburon, California 94920

Subject: Sewer Service Charge Study – Final Report

Dear Tony Rubio:

HF&H Consultants, LLC, is pleased to submit this Final Report of the Sewer Service Charge Study. The report summarizes the projected revenue requirements over the next five fiscal years, updates the annual sewer service charges, and provides a detailed schedule of the recommended sewer service charges for the next five years.

We appreciate your assistance in developing the recommended rates. Thank you for the opportunity to continue to support the District.

Sincerely,

HF&H CONSULTANTS, LLC

whard J. Smorrow

Rick Simonson Senior Vice President

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APPENDIX A. RATE MODEL

ACRONYMS

CIP	Capital Improvement Plan
EDU	Equivalent Dwelling Unit; A standard unit measure of wastewater utility service, based on the volume and strength of wastewater flow.
FY	Fiscal Year
HCF or CCF	Hundred Cubic Feet of metered water; 748 gallons; a cube of water 4.6 feet on edge
MMWD	Marin Municipal Water District
0&M	Operations and Maintenance
PAYGo	Pay-As-You-Go, in reference to funding capital improvements from cash rather than from borrowed sources of revenue.
SASM	Sewerage Agency of Southern Marin

ACKNOWLEDGEMENTS

Board of Directors

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District Staff

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LIMITATIONS

This study was prepared solely for Sanitary District No. 5 of Marin County (District) in accordance with the contract between the District and HF&H and is not intended for use by any other party for any other purpose.

In preparing this study, HF&H relied on information from the District, which we consider to be accurate and reliable and did not independently verify.

Rounding differences caused by stored values in electronic models may exist.

This study addresses relevant laws, regulations, and court decisions but should not be relied upon as legal advice. Questions concerning the interpretation of legal authorities referenced in this study should be referred to a qualified attorney.

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1. EXECUTIVE SUMMARY

1.1 Findings and Recommendations

- A. **Summary of Services.** The District provides sewer collection and treatment services to the Town of Tiburon, to the City of Belvedere, and to the unincorporated Paradise Cove area.
- B. Current Rates. The District has not increased sewer service charges since 2014. All customers within the District's boundaries are provided collection and treatment services. Figure 1-1 summarizes the current charges by customer class. Residential customers are charged per dwelling unit (DU). Non-residential customers are charged based on their metered flow and wastewater strength. Further details on how the non-residential equivalent dwelling units (EDUs) are calculated can be found in Section 4.3 of this report.

Figure 1-1. Current Sewer Service Charges								
Customer Class	Current Charge							
Tiburon/Paradise Cove								
Residential	\$1,034 per year per DU							
Non-Residential	\$1,034 per year per EDU							
Belvedere								
Residential	\$1,985 per year per DU							
Non-Residential	\$1,985 per year per EDU							

Figure 1-1. Current Sewer Service Charges

C. **Revenue Requirement Projections.** The annual net revenue requirement projections to support the District's operation and capital improvement program (CIP) to provide collection and treatment services are shown in **Figure 1-2**.

	Budget		•	Projected		
Net Revenue Requirement	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28
Operating Expenses	\$4,574,629	\$5,122,414	\$5,298,402	\$5,480,775	\$5,669,781	\$5,865,676
Debt Service	760,168	760,412	760,284	759,784	758,912	757,668
Capital Improvements	2,869,500	2,046,774	4,217,340	3,003,894	1,908,824	2,378,152
(Less) Non-Operating Revenue	(\$155,800)	(\$158,800)	(\$158,800)	(\$158,800)	(\$158,800)	(\$158,800)
Net Revenue Requirement	\$8,048,497	\$7,770,800	\$10,117,226	\$9,085,654	\$8,178,717	\$8,842,695
Annual Change		-3.5%	30.2%	-10.2%	-10.0%	8.1%

Figure 1-2. Annual Net Revenue Requirements

D. **Combining Zones.** Historically, the District has allocated costs among the two zones to assist with ratemaking, Tiburon, which includes Paradise Cove customers, and Belvedere. Through conversations with the Board of Directors, the proposed adjustments include consolidation to one combined zone. One zone will simplify and create both cost and operational efficiencies for the District, as the District will no longer have to distinguish expenses, reserves, and budgets by separate service areas.

E. Recommended Rates – Collection and Treatment. Figure 1-3 summarizes the recommended annual rates through the five-year financial planning period (FY 2023-24 through FY 2027-28), by customer class, to cover the increases in the District's net revenue requirements (summarized in Figure 1-2) to provide sewer collection and treatment services during the five-year planning period. The proposed rates reflect the District's preference to move to one combined zone. However, there are two rates to recognize the contributions from Ad-Valorem revenues received from Tiburon customers.¹

Figure 1-3. Recommended Annual Sewer Service Charges								
		Adopted			Proposed			
Sev	ver Service Charges	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	
1	Base Rate Parcel							
2	Annual sewer service charge per EDU	\$1,985	\$1,848	\$2,033	\$2,237	\$2,460	\$2,706	
3	% Rate Adjustment		-7%	10%	10%	10%	10%	
4	Ad-Valorem Credited Parcel							
5	Calculated sewer service charge per ED	U	\$1,848	\$2,033	\$2,237	\$2,460	\$2,706	
6	(Less) ad valorem credit per EDU		(\$491)	(\$500)	(\$509)	(\$518)	(\$528)	
7	Annual sewer service charge per EDU	\$1,034	\$1,358	\$1,534	\$1,728	\$1,942	\$2,179	
8	% Rate Adjustment		31%	13%	13%	12%	12%	

Regardless of location, all parcels are assessed the same charge for service on a per EDU basis. Parcels which contribute Ad-Valorem tax revenue to the District are assessed the same charge per EDU through the combination of the sewer service charge and a portion of the Ad-Valorem revenues the District receives.

This principle of equal annual sewer service payments is reflected in **Figure 1-4**. In FY 2023-24 through FY 2027-28, the sum of rows 3 and 4, shown as row 5, are equal to the sum of rows 8 and 9, shown as row 10.

	Annual Sewer Service Payments	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28
1	Base Rate Parcel						
2	Annual change	\$0	(\$137)	\$185	\$203	\$224	\$246
3	Annual sewer service charge per EDU	\$1,985	\$1,848	\$2,033	\$2,237	\$2,460	\$2,706
4	Property tax payment per EDU	\$0	\$0	\$0	\$0	\$0	\$0
5	Combined payment per EDU	\$1,985	\$1,848	\$2,033	\$2,237	\$2,460	\$2,706
6	Ad-Valorem Credited Parcel						
7	Annual change	\$0	\$324	\$176	\$194	\$214	\$237
8	Annual sewer service charge per EDU	\$1,034	\$1,358	\$1,534	\$1,728	\$1,942	\$2,179
9	Property tax payment per EDU	\$457	\$491	\$500	\$509	\$518	\$528
10	Combined payment per EDU	\$1,491	\$1,848	\$2,033	\$2,237	\$2,460	\$2,706

Figure 1-4. Combined Annual Sewer Service Payments per EDU

¹ All but two Tiburon customers/parcels contribute Ad-Valorem tax revenue provided by the Marin County Tax Assessor's Office. The District has documentation of which two do not contribute and will be charged at the Base Rate with no Ad-Valorem Credit.

F. District's Reserve Fund Balance. As shown in Figure 1-5, with the recommended rates in Figure 1-3, the District's reserve fund balance (solid green line with squares) will remain at, or slightly above, the Industry Target balance (dashed blue line) during the five-year planning period. The Industry Target addresses annual operating, cash-funded capital, and other reserve requirements. A description of the District's reserve funds and target balances is included in this report, beginning with Section 3.8. Without the recommended increases, the District's reserve fund balance (dotted green line with squares) quickly approaches the minimum balance (solid red line with circles). The minimum fund balance is necessary for the District to achieve its annual cash flow for its basic level of operations but does not allow for capital spending or emergency reserves.

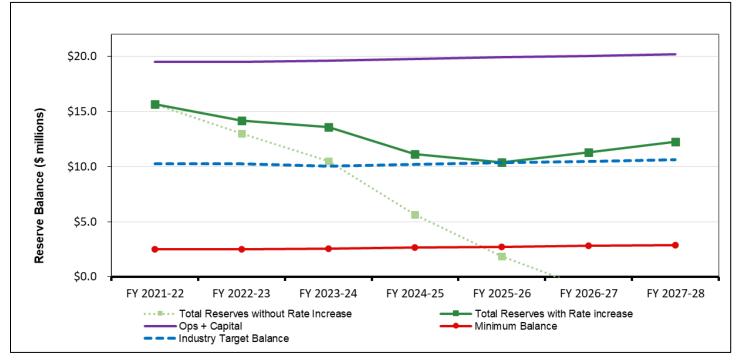


Figure 1-5. District's Projected Year-End Fund Balances

1.2 Implementation

A. **General**. This report documents the rates proposed for adoption by the District, as shown previously in **Figure 1-3**. The proposed rate plan should maintain adequate reserves for cash flow and emergency purposes. Actual revenues and expenses may differ from the projections included in the five-year financial model (included in **Appendix A**), which is the basis for these proposed rate increases. Each year, as part of the annual budget process, the District should confirm the need for the next incremental rate change. The District can implement a lower rate increase, if supported by the financial forecast, without going through the Proposition 218 notification process.

2. INTRODUCTION

2.1 Study Purpose

The purpose of this study is to update the District's rates to ensure that they generate sufficient revenue and that the rate structure reflects the District's current rate-making objectives. The study was commissioned by the District to evaluate the effect of certain rate structure modifications in response to input from its customers.

2.2 Rate-Making Objectives

The District's current rate-making objectives include the following:

- Provide revenue sufficiency and financial stability to fund the projected capital and operating and maintenance (O&M) costs of the District.
- Reflect the proportional impact to the cost of service.
- Meet the District's operations and capital funds reserve targets.
- Reflect equity of costs in proportion to the level of service in ratemaking.
- Provide for efficient administration and execution of utility billing.
- Minimize "rate shock" overall and to any specific customer class.
- Develop clear rates that customers can understand.
- Ensure rates comply with Proposition 218 and applicable State codes.

2.3 Background

The District provides wastewater collection and treatment services to the Town of Tiburon, to the City of Belvedere, and to the unincorporated Paradise Cove area. In 2005, the Town of Belvedere's collection system was annexed to the District. The collection systems in Tiburon and Belvedere comprise pipelines and pump stations that are hydraulically separate. However, flows from each collection system converge at the District's main treatment plant. In 2007, the parcels located along Paradise Drive and the corresponding collection system were annexed to the District. Paradise Cove's collection system and treatment plant are separate from the rest of the District's facilities.

2.4 Report Organization

The report contains five sections:

- 1. **Executive Summary** Summarizes our findings and recommendations.
- 2. Introduction Provides context for the study.
- 3. **Projected Revenue Requirements** Documents the annual revenue requirements and increases in rate revenue for the five-year planning period from fiscal year (FY) 2023-24 through FY 2027-28.
- 4. **Rate Design** Describes the recommended updates to the existing rate structure and the rationale for these updates.

- 5. Cost of Service and Rate Analysis Documents the derivation of the rates.
- 6. **Five-year Rate Plan Recommendations** Summarizes the recommended rates for the five-year planning period.

3. REVENUE REQUIREMENT PROJECTIONS

Rate analysis begins by determining the net revenue that must be provided from the sewer service charge rates to cover the cost of service to provide collection and treatment services to the District's entire service area. For purposes of this study, a five-year rate projection period was developed using a spreadsheet model (see **Appendix A**). With this model, the net revenue requirements were projected for FY 2023-24 through FY 2027-28. **Figures 3-1** summarizes the net revenue requirements used to develop the annual sewer service charges and indicate the annual change in revenue.

		Budget			Projected		
	Net Revenue Requirement	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28
1	Personnel	\$2,930,839	\$2,947,024	\$3,051,084	\$3,159,049	\$3,271,074	\$3,387,322
2	Operations & Maintenance	1,229,500	1,704,000	1,761,786	1,821,629	1,883,607	1,947,800
3	Administrative	414,290	471,390	485,532	500,098	515,101	530,554
4	Debt Service	760,168	760,412	760,284	759,784	758,912	757,668
5	Avg. Annual Capital Improvements	2,869,500	2,710,997	2,710,997	2,710,997	2,710,997	2,710,997
6	Ad-Valorem Revenue	(1,185,133)	(1,206,814)	(1,228,892)	(1,251,374)	(1,274,266)	(1,297,578)
7	Other Non-Operating Revenue	(155,800)	(158,800)	(158,800)	(158,800)	(158,800)	(158,800)
8	Net Revenue Requirement	\$6,863,364	\$7,228,209	\$7,381,991	\$7,541,383	\$7,706,623	\$7,877,962
9	Annual Change		5.3%	2.1%	2.2%	2.2%	2.2%

The operating and capital components of the revenue requirements are based on projections prepared by the District and presented in the District's adopted FY 2022-23 budget and the District's draft FY 2023-24 budget. Factors driving future cost trends (and related revenue requirements) for each of these components are summarized here.

3.1 Personnel Expenses

This cost category includes salaries and benefits. From FY 2024-25 to FY 2027-28, salaries and salaryrelated expenses have been escalated 3% annually. Pension and benefits have been escalated 5% annually. No staff headcount increases are anticipated.

3.2 Operations & Maintenance

This cost category includes electrical utility costs, fuel, permitting fees, non-capital materials, and equipment. Expenses increased significantly between FY 2022-23 and FY 2023-24 due to material and product shortages, as well as inflation. Utility costs have been escalated 5% annually while all other expenses have been increased 3% annually for FY 2024-25 to FY 2027-28.

3.3 Administrative Expenses

Costs within this category account for office, legal, and insurance expenses. Assessor tax roll preparation fees are also included. The District's administrative costs are projected to increase gradually by 3% annually for the five-year planning period.

3.4 Debt Service

In 2012, the District issued \$12 million in revenue bonds to fund the Main Plant Rehabilitation Project. The District refinanced in 2020 and kept the same maturity date of 2031. The District's annual obligation

ranges between \$760,000 and \$749,000 for the planning period of FY 2022-23 through FY 2027-28. Additional details are included in Table 6 of **Appendix A**.

3.5 Capital Improvements

In addition to the major capital improvements funded with debt, the District maintains a capital improvement program (CIP) for replacement and rehabilitation of its system, which is funded through sewer service charge rates on a pay-as-you go (PAYGo) basis. The District's capital improvement plan is detailed in the model (see **Appendix A**). Under the proposed rate structure, all capital costs will be shared equally among the District's customers.

	Budget	_		Projected		
CIP Project Summary	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28
Main Treatment Plant	\$925,000	\$675,000	\$850,000	\$835,000	\$525,000	\$350,000
Paradise Cove Treatment Plant	\$75,000	\$125,000	\$295,000	\$375,000	\$125,000	\$150,000
Tiburon Pumps and Lines	\$1,095,000	\$325,000	\$1,525,000	\$675,000	\$625,000	\$1,100,000
Belvedere Pumps and Lines	\$774,500	\$825,000	\$1,200,000	\$770,000	\$350,000	\$350,000
Subtotal	\$2,869,500	\$1,950,000	\$3,870,000	\$2,655,000	\$1,625,000	\$1,950,000
Construction Cost Index	1.00	1.05	1.09	1.13	1.17	1.22
Escalated CIP Total	\$2,869,500	\$2,046,774	\$4,217,340	\$3,003,894	\$1,908,824	\$2,378,152
Average Annual Capital Improvements (FY 2023-24 - FY 2027-28)						\$2,710,997

Figure 3-2. PAYGo Capital Projects Summary

The project costs summarized in **Figure 3-2** include a 5.0% cost escalation in FY 2023-24 and a 3.8% annual inflation factor for future years. The former assumption is based on the five-year compound annual growth rate of the Construction Cost Index of San Francisco between 2017 and 2022, published by Engineering News Record. The latter assumption is based on the ten-year compound annual growth rate between 2012 and 2022.

The anticipated cost of the capital improvement projects from FY 2023-24 to FY 2027-28 fluctuates each year between \$1.9 million to \$4.2 million. However, rates are not set to match these annual variations, which would lead to rate volatility, by increasing rates one year and decreasing the next. Instead, rates are based on multi-year averages. The average annual revenue requirement for capital improvement projects in this study assumes annually recurring costs of \$2,7107,997. This value is reflected in **Figure 3-1** and used in the calculation of rates for FY 2023-24, discussed later in **Section 4**.

3.6 Ad-Valorem Revenue

This revenue category includes the revenue from the Ad-Valorem taxes (i.e., property taxes) received from Marin County. During this rate study period, the Ad-Valorem revenues are assumed to increase by 1.8% annually, based on the actual average annual increase in Ad-Valorem revenues received between FY 2018-19 through FY 2020-21. Marin County does not reimburse the District for unincorporated parcels or Tiburon parcels added to the County register after 2014. In addition, the District does not receive Ad-Valorem revenues from the County for Belvedere parcels, as a condition of Belvedere's annexation to the District in 2005. Therefore, growth does not contribute to an increase in Ad-Valorem revenues.

3.7 Non-Operating Revenue

This revenue category includes the revenue received from other user fees and inspection fees. The District shares an outfall with Sewerage Agency of Southern Marin (SASM). The District is responsible for

dechlorinating the effluent from SASM prior to discharging it. In return, SASM pays the District an annual reimbursement of \$100,000. During this rate study period, all revenues in this category were assumed to remain flat.

3.8 Reserves

In addition to covering annual expenses, rates need to generate revenue to maintain adequate operations and capital reserves. To determine what constitutes adequate reserve amounts, the District's reserve balance was subdivided into the General Operating Fund, Capital Replacement Reserve, Disaster Recovery Reserve, and Retirement Reserve. In this way, it is possible to set recommended target balances for each purpose. On an annual basis, funds will be transferred to and from the reserves to allow the District to pay operating and capital expenses in a timely manner. The following provides a description of the separate reserve funds and the recommended target balances.

3.8.1 General Operating Reserve

Because of the lag between collection and transfer of sewer service charge payments from the County tax assessor to the District, the Operations Reserve balance is set equal to \$2.5 million to provide adequate cash flow. If this minimum balance is maintained, the District should be able to fund its monthly operations cash flow over a period of six months without relying on the use of a short-term loan. This sixmonth period matches the gap in property tax payments received. Maintaining the minimum balance for the Operations Reserve is recommended as the highest priority for the District.

3.8.2 Capital Replacement Reserve

The Capital Replacement Reserve provides liquidity to fund construction for projects that are funded on a PAYGo basis (as opposed to those that are funded from debt). The capital allowance provides working capital to maintain sufficient funds in order to pay contractors so that work can proceed without delay. The Capital Reserve target is set at \$15 million. This target provides more than 2 times the average annual cash-funded capital project expenditures over the five-year planning period (~\$4.4 million). Achieving this level of capital reserves would allow the District to meet its goal to fund all projects, planned or unplanned, on a PAYGO basis.

3.8.3 Disaster Recovery Reserve

The target balances for the Operations and Capital Reserves are sufficient to provide working capital on an ongoing basis, but do not provide for unforeseen contingencies such as emergencies. Should an emergency strike (e.g., earthquake), the District cannot suddenly raise rates to generate additional funds due to state law requirements for such rate increases (e.g., Proposition 218). Moreover, the District bills annually on the tax rolls. Therefore, the District has set a target for the Disaster Recovery reserve equal to \$1 million. With such a reserve, the District would have funds on hand to take immediate remedial steps without waiting to procure a loan or issue bonds. This reserve is fully funded and remains funded through the planning period.

3.8.4 Retirement Reserve

The District's Retirement Reserve provides for the funding of employees' pension obligations. The target balance for this reserve is \$1 million. This reserve is fully funded and remains funded through the planning period.

3.9 Projected Rate Revenue Increases

The District has not increased rates since 2014. As a result, larger revenue increases are needed over the next five years to eliminate the current operating shortfall, as shown in **Figure 3-3**.

	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28		
Annual Revenue Increases		13.0%	10.0%	10.0%	10.0%	10.0%		
Rate Revenue with Increases	\$5,030,902	\$5,542,909	\$6,107,923	\$6,730,511	\$7,416,537	\$8,172,463		
Revenue Requirement	(\$8,204,297)	(\$8,593,823)	(\$8,769,683)	(\$8,951,556)	(\$9,139,690)	(\$9,334,341)		
Operating Surplus/(Shortfall)	(\$3,173,395)	(\$3,050,914)	(\$2,661,760)	(\$2,221,046)	(\$1,723,153)	(\$1,161,878)		
Ad-Valorem Revenue	1,185,133	1,206,814	1,228,892	1,251,374	1,274,266	1,297,578		
Other Non-Operating Revenue	155,800	158,800	158,800	158,800	158,800	158,800		
Net Operating Surplus/Shortfall	(\$1,832,462)	(\$1,685,300)	(\$1,274,068)	(\$810,872)	(\$290,087)	\$294,500		

Figure 3-3.	Projected	Rate Revenue	Increases
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3.10 Reserve Fund Balance

Figure 3-4 shows the projected annual fund balances with the rate revenue increases recommended in **Figure 3-3** (solid green line with squares) and without the rate increases (dotted green line with squares). Although the projections show straight lines between years, the fund balance will be drawn down substantially during each year. In other words, the reserves are actively drawn from throughout the year, but only periodically added to when payments are received from the County. The reserves are not simply accumulated without being used. The recommended revenue increases would ensure the reserve fund balance meets the industry target balance (blue dashed line). Discussion for each of these target balances follows.

3.10.1 Minimum Balance

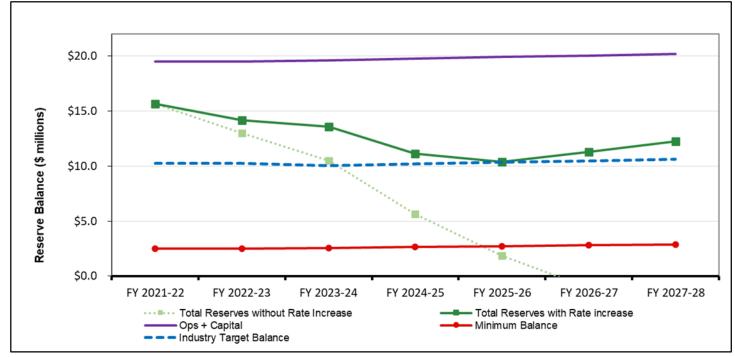
The minimum balance (red line) is the balance that is required to meet the District's O&M expenses during the year. The minimum fund balance is necessary for the District to achieve its annual cash flow needs and because the District bills annually on the tax rolls and receives reimbursement from the County only twice each year. As a result, there are several months over which the District must rely on its operating reserve to meet its monthly cash flow requirements. Because of the lag between payments from the County, the minimum Operations Reserve balance is set equal to \$2.5 million, and is assumed to increase 3% annually, to keep up with inflation.

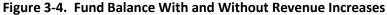
3.10.2 Industry Target Balance

The proposed revenue increases maintain the fund balance (solid green line) above the industry target balance (blue dashed line) by Fiscal Year 2027-28. This target balance is the sum of the minimum balance for operations (red line), plus an allowance for the District's other reserves: Disaster Recovery and Retirement, and two times the average, annual, cash-funded capital improvements (\$2.7 million). The threshold of capital funding included within this target balance aligns with other sewer agencies, who commonly set a goal of maintaining one to two times the annual capital project funding in reserves. This practice provides most sewer agencies the opportunity to utilize reserves, rather than debt issuance, to fund all but the most extraordinary capital improvements. The target is assumed to grow by 3% annually due to inflation, beginning at a value of \$10.0 million in FY 2023-24.

3.10.3 Target Fund Balance

The proposed revenue increases over the five-year period increase the fund balance, bringing it closer to the District's target balance (solid purple line). The District's current policy, which establishes this target includes the minimum balance for operations, allowances for the District's other reserves: Disaster Recovery and Retirement, and a capital improvements target of \$15 million. Holding this level of reserves allows the District to continue cash-funding larger improvement projects, without future debt issuance. Collectively, this target balance is \$19.6 million in FY 2023-24.





4. RATE DESIGN

4.1 Introduction

The District's current rate structure charges customers per equivalent dwelling unit (EDU). An EDU is the basic unit of wastewater utility service and reflects the average concentration and strength of flows from a single dwelling unit, which make up most of the District's customer base.

4.2 Residential Customer Rate Design

The District provides collection and treatment services to one residential customer class. All residential customers pay a fixed sewer service charge per EDU. In other words, multi-family parcel bills correspond to the number of living units associated with the property. The residential rate structure is recommended to remain the same during this five-year planning period.

4.3 Non-Residential Customer Rate Design

Non-residential customers have different impacts on the sewer system, and therefore have individual rates based on the strength (cost to treat) and amount of flow (determined by annual water use). For instance, a restaurant pays more than an office because the grease and food from cooking in a restaurant is a higher strength and thus more costly to treat than wastewater from an office. Historically, non-residential customers have been charged based on their annual water use relative to the average water use of residential customers within the District. As a result, non-residential customer bills have fluctuated based on residential customer's level of conservation, even when a non-residential customer's flow remains the same.

All non-residential customers are subject to a minimum charge equal to one EDU per parcel. This minimum charge matches the sewer service charge billed to a residential customer. This charge allows the District to be reimbursed for fixed costs, even when wastewater flows are minimal.

The District currently uses residential water use data from the prior calendar year to calculate commercial charges. Instead of utilizing a standard that fluctuates annually, it is recommended the District assume a constant value of 75 hundred cubic feet (HCF) per EDU each year. This volume of water use represents the median value of average annual residential flow over the last five years. Establishing a fixed flow standard reduces the volatility in non-residential customer bills, as these customers would not be affected by annual fluctuations in residential water use patterns. Based on FY 2022-23 bills, which used 71 HCF as the annual residential flow standard, this change from 71 to 75 HCF per EDU would result in a reduction in the number of non-residential EDUs, and consequently, the revenue from non-residential customers for FY 2023-24.

Non-residential customers pay per EDU based on a formula that determines each commercial customer's number of EDUs. Each non-residential customer's flow and strength is considered in the determination of their individual sewer bills as shown in the proposed formula below:

- Non-residential EDUs = (Annual Flow² ÷ 75 HCF) x Strength Factor³
- Annual Non-Residential Sewer Service Charge = Non-residential EDUs x Annual Rate

Non-Residential Charge = (Charge per EDU) x (flow factor) x (strength factor)

The study did not evaluate the strength factors used to assess non-residential sewer service charges and these are assumed to remain the same for the five-year period.

4.4 Zone Consolidation

The District requested that future rates be consolidated from two zones into one. Instead of allocating costs separately, based on share of wastewater volumes, or capacity, all expenses and reserves will be shared among all customers. One zone will simplify and create both cost and operational efficiencies for the District, as the District will no longer have to distinguish expenses, reserves, and budgets by separate service areas. Staff time required to account for work and budgets across multiple zones will be reduced. The proposed rates were determined using this combined zone approach.

4.5 Ad-Valorem Allocation

One reason the current rates are divided is to account for the District receiving Ad-Valorem (property tax) revenues from Tiburon customers, but not from Belvedere customers or some unincorporated parcels within Tiburon. While consolidating to one zone, the District would like to continue to provide credit to parcels that contribute Ad-Valorem revenues. The proposed rates recognize this differential between the Tiburon customers who contribute ad-valorem revenues and all other parcels whose property taxes are not captured by the District. The District anticipates receiving \$1.2 million in Ad-Valorem revenues for FY 2023-24.

4.6 Calculation of the Sewer Service Charges

To revise the sewer service charges, the analysis must calculate the unit charge. The FY 2023-24 revenue requirement is divided by the units of service to determine a unit charge. The total billed sanitary units are the summation of all residential and non-residential EDUs and represent the units of service in the analysis. For non-residential customers, this value accounts for wastewater strength and assigns a minimum value of one EDU to each parcel. Billed sanitary units for FY 2022-23 were adjusted to account for the proposed flow standard, 75 HCF per EDU. As stated previously, this change reduced the number of calculated non-residential EDUs due to the increased assumption in flow standard from 71 to 75 HCF. For reference, **Figure 4-1** calculates the billed sanitary units.

² Annual flow is defined in the District's current ordinances, Ordinance No. 2010-03 and Ordinance No. 2010-04, as the total volume of water utilized by a commercial property in a previous calendar year as calculated by Marin Municipal Water District (MMWD) meter reading for the property, excluding any MMWED meters designated, or proven to be, only for irrigation purposes or other uses not resulting in water entering the SD No. 5 collection system.

³ Strength factors are as follows: 1.00 for Non-Residential, Miscellaneous, 1.7 for Hotels, Inns with Dining, 2.0 for Delis, 2.2 for Grocery stores with grinder systems, 2.4 for Restaurants.

	FY 2023-24
	Sanitary Units
Residential	
Base Rate	1,065.00
Ad-Valorem Credited	1,985.50
	3,050.50
Non-Residential	
Base Rate	127.30
Ad-Valorem Credited	473.92
	601.22
Total Billed Sanitary Units	3,651.72

Figure 4-1. FY 2023-24 Billed Sanitary Units

With the total units of service computed, **Figure 4-2** shows how the FY 2023-24 sewer service charges are determined. The total revenue requirement is obtained from **Figure 3-1**, rows 1-5, which is then added to non-operating revenues from **Figure 3-1**, row 7. The operating shortfall from **Figure 3-3** is added to the net revenue requirement to determine the amount of rate revenues that will be generated from the total billed sanitary units. The base sewer service charge represents the unit cost of service, \$1,848 per EDU. There are 2,463.42 sanitary units that will receive credit for Ad-Valorem revenues contributed to the District. In exchange, a unit of credit per EDU is calculated by dividing the Ad-Valorem revenue from **Figure 3-1**, row 6, \$1,206,814, by the number of sanitary units to be credited. This results in a unit of credit per EDU of approximately \$491. When the unit credit is applied to the base sewer service charge, the advalorem credited sewer service charge is adjusted to \$1,358 per EDU.

Figure 4-2. FY 2023-24 Billed Sanitary Units							
FY 2023-24 Units of Service Calculation							
Total Revenue Requirement	\$8,593,823						
(Less) Miscellaneous Fee Revenues ¹	(158,800)						
Net Revenue Requirement	8,435,023						
(Less) Reserves to address shortfall after rate increase	(1,685,300)						
Revised Net Revenue Requirement	\$6,749,723						
Units of Service (EDUs)	3,651.72						
FY 2023-24 Base Sewer Service Charge per EDU	\$1,848						
(Less) Ad-Valorem Revenue per EDU	(\$491)						
FY 2023-24 Ad-Valorem Credited Sewer Service Charge per EDU	\$1,358						

Figure 4-2. FY 2023-24 Billed Sanitary Units

¹Includes SASM reimbursement, inspection fees, and other user fees.

All current Belvedere customers would be charged the base sewer service charge. Based on County records, all but two parcels, or three billed sanitary units, currently assessed as Tiburon customers, would be charged using the ad-valorem credited sewer service charge.

5. FIVE-YEAR RATE PLAN RECOMMENDATION

5.1 Recommended Annual Sewer Service Charges

A five-year rate plan was prepared based on the District's net revenue requirements. The rates distinguish the parcels that do and do not contribute Ad-Valorem revenues to the District. The proposed five-year rate plan is shown in **Figure 5-1**. FY 2023-24 rates not only reflect an increase in rate revenues, but three additional adjustments: 1) the consolidation of all customers into one zone, 2) the change in annual water use attributed to each non-residential EDU, and 3) the Ad-Valorem revenues contributed from Tiburon parcels. In FY 2024-25 through FY 2027-28, the annual base sewer service charge is increased according to the revenue increases shown previously in **Figure 3-3**. However, the Ad-Valorem credit is assumed to increase more gradually at a rate of 1.8% versus the 10% annual increases to the base sewer service charge annual increase is based on the average annual increase seen between FY 2018-19 to FY 2020-21. Therefore, over time the base sewer service charge and ad-valorem credited sewer service charge will grow proportionately closer together. This is apparent in the proportional difference in recommended sewer service charges between FY 2023-24 and FY 2027-28. During the five-year period, the difference in sewer service charges decreases from 27% to 20% of that of the base service charge.

	Adopted			Proposed		
Sewer Service Charges	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28
1 Base Rate Parcel						
2 Annual sewer service charge per ED	U \$1,985	\$1,848	\$2,033	\$2,237	\$2,460	\$2,706
3 % Rate Adjustment		-7%	10%	10%	10%	10%
4 Ad-Valorem Credited Parcel						
5 Calculated sewer service charge pe	r EDU	\$1,848	\$2,033	\$2,237	\$2,460	\$2,706
6 (Less) ad valorem credit per EDU		(\$491)	(\$500)	(\$509)	(\$518)	(\$528)
7 Annual sewer service charge per ED	U \$1,034	\$1,358	\$1,534	\$1,728	\$1,942	\$2,179
8 % Rate Adjustment		31%	13%	13%	12%	12%

Figure 5-1. Recommended Annual Sewer Service Charges

Regardless of location, all parcels are assessed the same charge for service on a per EDU basis. Parcels which contribute Ad-Valorem tax revenue to the District are assessed the same charge per EDU through the combination of the sewer service charge and a portion of the Ad-Valorem revenues the District receives.

This principle of equal annual sewer service payments is reflected in **Figure 5-2**. In FY 2023-24 through FY 2027-28, the sum of rows 3 and 4, shown as row 5, are equal to the sum of rows 8 and 9, shown as row 10.

		Adopted			Projected		
	Annual Sewer Service Payments	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28
1	Base Rate Parcel						
2	Annual change	\$0	(\$137)	\$185	\$203	\$224	\$246
3	Annual sewer service charge per EDU	\$1,985	\$1,848	\$2,033	\$2,237	\$2,460	\$2,706
4	Property tax payment per EDU	\$0	\$0	\$0	\$0	\$0	\$0
5	Combined payment per EDU	\$1,985	\$1,848	\$2,033	\$2,237	\$2,460	\$2,706
5	Ad-Valorem Credited Parcel						
7	Annual change	\$0	\$324	\$176	\$194	\$214	\$237
8	Annual sewer service charge per EDU	\$1,034	\$1,358	\$1,534	\$1,728	\$1,942	\$2,179
Э	Property tax payment per EDU	\$457	\$491	\$500	\$509	\$518	\$528
0	Combined payment per EDU	\$1,491	\$1,848	\$2,033	\$2,237	\$2,460	\$2,706

Figure 5-2. Combined Annual Sewer Service Payments per EDU

5.2 Sewer Service Charge Comparison

Based on available sources, **Figure 5-3** shows the recent charges for sewer service to single-family customers among various representative agencies. Rate structures vary among agencies. For purposes of comparison, flow-based charges assume an annual flow volume of 75 HCF, based on the flow standard per EDU proposed by this study. All current Belvedere customers can expect a decrease in FY 2023-24 from current rates. However, this adjustment does not change the overall position of these customers' rates relative to comparable jurisdictions. The increase to the Tiburon customers from \$1,034 to \$1,358 per EDU moves these customers' rates closer to the median value of the rate comparison. While the District's rates are recommended to increase, not all other agencies included in the comparison reflect recent rate increases. For example, Alto Sanitary District has not increased rates since 2018 and may be due to a series of rate increases, like the District. Other customers benefit from economies of scale that allow larger jurisdictions to spread fixed costs over a larger customer base than the District's estimated service population of 10,000. Finally, the comparison excludes any Ad-Valorem revenues contributed by the customer to each jurisdiction. Therefore, it is plausible that customers in other jurisdictions may pay more in annual sewer service charges, through the combination of sewer bills and property tax payments, than what is reflected as a jurisdiction's adopted rates.

5. Five-Year Rate Plan Recommendation





Note: This comparison excludes any Ad-Valorem revenues contributed by the customer to a jurisdiction.

Appendix A: Rate Model

	A B	C D	E	F	G	Н	Ι	J					
	Sanitary District No. 5 of Marin Co												
2													
3	Table 1A. 1 Zone Summary												
4													
5													
6			Budgeted			Projected							
7		FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28					
9	Increases (SD5 Combined)												
10	Annual revenue increase		0.0%	13.0%	10.0%	10.0%	10.0%	10.0%					
11	Cumulative increase		0.0%	13.0%	24.4%	36.8%	50.5%	65.5%					
16		Base Rate	e \$1,985	\$1,848	\$2,033	\$2,237	\$2,460	\$2,706					
17	Ad-Valor	em Credited Rate	e \$1,034	\$1,358	\$1,534	\$1,728	\$1,942	\$2,179					
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28 29 30 31 32 33 34 35 36 37 38 39	_		FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28					
28 29 30 31 32 33 34 35 36 37 38 39 40	_	•	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28					
28 29 30 31 32 33 34 35 36 37 38 39 40 41	_	•	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28					
28 29 30 31 32 33 34 35 36 37 38 39 40	_	•	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26 Proposed	FY 2026-27	FY 2027-28					
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	\$0.0	•	Adopted			Proposed							
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	\$0.0 Sewer Service Charges	•		FY 2023-24	FY 2024-25		FY 2026-27 FY 2026-27	FY 2027-28					
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	\$0.0 Sewer Service Charges 1 Base Rate Parcel	FY 2021-22	Adopted FY 2022-23	FY 2023-24	FY 2024-25	Proposed FY 2025-26	FY 2026-27	FY 2027-28					
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	\$0.0 Sewer Service Charges 1 Base Rate Parcel 2 Annual sewer service charge p	FY 2021-22	Adopted	FY 2023-24 \$1,848		Proposed FY 2025-26 \$2,237	FY 2026-27 \$2,460	FY 2027-28 \$2,706					
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	\$0.0 Sewer Service Charges 1 Base Rate Parcel	FY 2021-22	Adopted FY 2022-23	FY 2023-24	FY 2024-25 \$2,033	Proposed FY 2025-26	FY 2026-27	FY 2027-28					
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 44 45 46 47	\$0.0 Sewer Service Charges 1 Base Rate Parcel 2 Annual sewer service charge p 3 % Rate Adjustment ¹	FY 2021-22	Adopted FY 2022-23	FY 2023-24 \$1,848	FY 2024-25 \$2,033	Proposed FY 2025-26 \$2,237	FY 2026-27 \$2,460	FY 2027-28 \$2,706					
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	\$0.0 Sewer Service Charges 1 Base Rate Parcel 2 Annual sewer service charge p 3 % Rate Adjustment ¹ 4 Ad-Valorem Credited Parcel	FY 2021-22	Adopted FY 2022-23	FY 2023-24 \$1,848 -7%	FY 2024-25 \$2,033 10%	Proposed FY 2025-26 \$2,237 10%	FY 2026-27 \$2,460 10%	FY 2027-28 \$2,706 10%					
28 29 30 31 32 33 34 35 36 37 37 38 39 40 41 42 43 44 45 46 47 48 49	\$0.0 Sewer Service Charges 1 Base Rate Parcel 2 Annual sewer service charge p 3 % Rate Adjustment ¹ 4 Ad-Valorem Credited Parcel 5 Calculated sewer service charge	FY 2021-22	Adopted FY 2022-23	FY 2023-24 \$1,848 -7% \$1,848	FY 2024-25 \$2,033 <i>10%</i> \$2,033	Proposed FY 2025-26 \$2,237 10% \$2,237	FY 2026-27 \$2,460 <i>10%</i> \$2,460	FY 2027-28 \$2,706 10% \$2,706					
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	\$0.0 Sewer Service Charges 1 Base Rate Parcel 2 Annual sewer service charge p 3 % Rate Adjustment ¹ 4 Ad-Valorem Credited Parcel 5 Calculated sewer service charge 6 (Less) ad valorem credit per EE	FY 2021-22 Der EDU	Adopted FY 2022-23 \$1,985	FY 2023-24 \$1,848 -7% \$1,848 (\$491)	FY 2024-25 \$2,033 10% \$2,033 (\$500)	Proposed FY 2025-26 \$2,237 10% \$2,237 (\$509)	FY 2026-27 \$2,460 10% \$2,460 (\$518)	FY 2027-28 \$2,706 10% \$2,706 (\$528)					
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	\$0.0 Sewer Service Charges 1 Base Rate Parcel 2 Annual sewer service charge p 3 % Rate Adjustment ¹ 4 Ad-Valorem Credited Parcel 5 Calculated sewer service charge	FY 2021-22 Der EDU	Adopted FY 2022-23	FY 2023-24 \$1,848 -7% \$1,848	FY 2024-25 \$2,033 <i>10%</i> \$2,033	Proposed FY 2025-26 \$2,237 10% \$2,237	FY 2026-27 \$2,460 <i>10%</i> \$2,460	FY 2027-28 \$2,706 10% \$2,706					

A B	С	D	E	F	G	Н		J
1 Sanitary District No	. 5 of Marin County							
2 2023-24 Cost of Ser	vice Wastewater Rate Study							
3 Table 1B. Assumpti	ons							
4								

5									
6			Budgeted			Projected			
7			FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	Notes
8	а	Interest on Fund Balance	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	To Table 4A
9	b	General inflation	Per Budget	Per Budget	3.0%	3.0%	3.0%	3.0%	To Table 2A
10	с	Labor Increases	Per Budget	Per Budget	3.0%	3.0%	3.0%	3.0%	To Table 2A
11	d	Pension & benefit increases	Per Budget	Per Budget	5.0%	5.0%	5.0%	5.0%	To Table 2A
12	е	Power	Per Budget	Per Budget	5.0%	5.0%	5.0%	5.0%	To Table 2A
13	f	Construction Cost Index	Per Budget	4.96%	3.82%	3.8%	3.8%	3.8%	To Table 5; 5-yr CAGR for SF CCI or FY 2023-24, 10-year CAGR for future years.
14	g	Plant, parts, services	Per Budget	Per Budget	3.0%	3.0%	3.0%	3.0%	To Table 2A
15	h	Pumps & Lines	Per Budget	Per Budget	3.0%	3.0%	3.0%	3.0%	To Table 2A
16	i	Growth in Total EDU's		-3.37%	0.18%	0.18%	0.18%	0.18%	From Table 3B, to Table 2A
17	j	Growth in EDU's - Tiburon		0.00%	0.17%	0.17%	0.17%	0.17%	To Tables 2A, 3D
18	k	Tiburon Residential EDUs	1,857.50	1,857.50	1,860.68	1,863.86	1,867.04	1,870.23	To Table 3B; FY 2023-24 assumes same as FY 2022-23
19	1	Tiburon Commercial/Mixed Use EDUs	609.68	473.92	474.73	475.55	476.36	477.17	To Table 3B; FY 2023-24 assumes same as FY 2022-23
20	m	Tiburon Additional EDUs	0.00	4.00	4.00	4.00	4.00	4.00	To Table 3B; Approximate number of EDUs based on FY 2022-23 budget
21	0	Growth in EDU's - Belvedere		0.00%	0.17%	0.17%	0.17%	0.17%	To Tables 2A, 3B
22	р	Belvedere Residential EDUs	1,056.00	1,056.00	1,057.79	1,059.58	1,061.36	1,063.15	To Table 3B; FY 2023-24 assumes same as FY 2022-23
23	q	Belvedere Commercial/Mixed Use EDUs	125.05	125.05	125.26	125.47	125.69	125.90	To Table 3B; FY 2023-24 assumes same as FY 2022-23
23 24	r	Belvedere Additional EDUs	0.00	2.00	2.00	2.00	2.00	2.00	To Table 3D; Approximate number of EDUs based on FY 2022-23 budget
25	t	Growth in EDU's - Paradise Cove		0.00%	0.38%	0.38%	0.38%	0.38%	To Tables 2A, 3B
26	u	Paradise Cove Residential EDUs	131.0	131.0	131.5	132.0	132.5	133.0	To Table 3B; FY 2023-24 assumes same as FY 2022-23
27	v	Paradise Cove Additional EDUs	0.00	0.50	0.50	0.50	0.50	0.50	To Table 3B; Approximate number of EDUs based on FY 2022-23 budget
28	x	Cumulative Growth - PC & Tiburon		0.00%	0.18%	0.18%	0.18%	0.18%	To Tables 2A, 3B
29	v	Tiburon/PC tax revenue increase	Per Budget	1.8%	1.8%	1.8%	1.8%	1.8%	Average increase from FYE 2019-2021
30	ź	Annual Tax revenue	\$1,185,133	\$1,206,814	\$1,228,892	\$1,251,374	\$1,274,266	\$1,297,578	To Tables 2A, 3B
31	aa	Proportion of ad valorem revenue to PC	4.93%	4.93%	4.93%	4.93%	4.93%	4.93%	From Table 3B
32	· · · ·	•							
33									
34		Reserve Policies for Each Area (Tiburon, Belved	lere and Paradise (ove)					
35		General Operating Reserve							
36		Purpose	For O&M cash flo	w during the yea	r				
37		Funding priority	Highest. If not m			ed.			
38		Minimum balance	One year's opera						
39		Target balance	\$2,500,000	0 - 1					
40			, ,,						
41		Capital Improvements Reserve							
42		Purpose	To be used for re	placement of exis	ting equipment a	nd facilities previo	ously purchased		
43		Funding priority	2nd Highest		0	·			
44		Minimum balance	Zero						
45		Target balance	\$15,000,000						
46			,,						
47		CalPERS Retirement Reserve							
48		Purpose	To provide suffic	ent annual fundir	ig of CalPERS pote	ential losses, as de	escribed in the Ca	IPERS Annual Act	uarial Valuation Reports under the Misc.
48 49			Plan's Share of P						
50		Funding priority	3rd Highest	,.					
51		Minimum balance	Zero						
52		Target balance	\$1,000,000						
53		raiger balance	<i>\$1,000,000</i>						
54		Disaster Recovery Reserve							
55		Purpose	To provide a leve	l of emergency ca	pital for disaster	recovery efforts	Intil long-term fin	ancing is establis	ned
56		Funding priority	Lowest	. o. emergency co		coovery choits t		and ng is coublis	
57		Minimum balance	Zero						
58		Target balance	\$1,000,000						
50		I diget valance	JT,000,000						

General Operating Reserve	
Purpose	For O&M cash flow during the year
Funding priority	Highest. If not maintained, interfund loans are needed.
Minimum balance	One year's operating expenses
Target balance	\$2,500,000
Capital Improvements Reserve	
Purpose	To be used for replacement of existing equipment and facilities previously purchased
Funding priority	2nd Highest
Minimum balance	Zero
Target balance	\$15,000,000
CalPERS Retirement Reserve	
Purpose	To provide sufficient annual funding of CalPERS potential losses, as described in the CalPERS Annual Actuarial Valuation Reports under the M
	Plan's Share of Pool's Investment,s Assets & Non-Assets.
Funding priority	3rd Highest
Minimum balance	Zero
Target balance	\$1,000,000

Disaster Recovery Reserve Purpose To provide a level of emergency capital for disaster recovery efforts until long-term financing is established Lowest Funding priority Zero Minimum balance \$1,000,000 Target balance

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1 4	A B Sanitary District No. 5 of Marin County	С	D	E	F	G	Н		J	К
	2023-24 Cost of Service Wastewater Rate Study									
	Table 2A. Revenue Requirements									
4	Table ZA. Revenue Requirements									
4		Tabl	a 10							
6				Dudaat			Ductortod			
7			Escalation Factor	Budget FY 2022-23	FY 2023-24	FY 2024-25	Projected FY 2025-26	FY 2026-27	FY 2027-28	Natas
8	One combined zone	Factor	Factor	FT 2022-23	FT 2023-24	FT 2024-25	FT 2025-20	FT 2020-27	FT 2027-28	Notes
9	Personnel									
10	Salaries, Overtime, Standby Pay, Deferred Comp Match	с		\$1,787,000	\$1,843,548	\$1,898,854	\$1,955,820	\$2,014,495	\$2 074 020	Table 2B for FY 2022-23, Table 2C for FY 2023-24.
11	Employee Incentives	c		\$60,000	\$60,000	\$61,800	\$63,654	\$65,564		Table 2B for FY 2022-23, Table 2C for FY 2023-24.
12	Vacation Buyout	c		\$65,000	\$80,000	\$82,400	\$84,872	\$87,418		Table 2B for FY 2022-23, Table 2C for FY 2023-24.
12 13	Payroll Taxes	c		\$155,965	\$110,000	\$113,300	\$116,699	\$120,200		Table 2B for FY 2022-23, Table 2C for FY 2023-24.
14	Payroll Bank Fees	b		\$7,000	\$7,000 \$7,000	\$7,210	\$7,426	\$7,649	. ,	Table 2B for FY 2022-23, Table 2C for FY 2023-24.
15	Car Allowance	b		\$6,000	\$6,000	\$6,180	\$6,365	\$6,556		Table 2B for FY 2022-23, Table 2C for FY 2023-24.
16	PERS Retirement	d		\$263,342	\$272,332	\$285,949	\$300,246	\$315,258	. ,	Table 2B for FY 2022-23, Table 2C for FY 2023-24.
17	Employee Benefits	d		\$319,272	\$290,000	\$304,500	\$319,725	\$335.711		Table 2B for FY 2022-23, Table 2C for FY 2023-24.
18	Retiree Health, CERBT/OPEB Current Employee	d		\$209,992	\$220,144	\$231,151	\$242,709	\$254,844		Table 2B for FY 2022-23, Table 2C for FY 2023-24.
19	Workers Compensation Insurance	c		\$57,268	\$58,000	\$59,740	\$61,532	\$63,378		Table 2B for FY 2022-23, Table 2C for FY 2023-24.
20	Subtotal, Personnel	C		\$2,930,839	\$2,947,024	\$3,051,084	\$3,159,049	\$3,271,074	\$3,387,322	
21	Operations			<i>\$2,550,055</i>	<i>\$2,547,024</i>	<i>\$3,031,004</i>	<i>\$3,133,043</i>	<i>\$3,211,014</i>	<i>\$3,307,322</i>	-
22	Supplies (Alarms, IT Support, Safety, PPE)	b	i	\$155,000	\$175,000	\$180,571	\$186,318	\$192,248	\$198 366	Table 2B for FY 2022-23, Table 2C for FY 2023-24.
22 23	Utilities	e		\$293,000	\$309,000	\$324,450	\$340,673	\$357,706		Table 2B for FY 2022-23, Table 2C for FY 2023-24.
24	Telephones	b		\$18,500	\$18,500	\$19,055	\$19,627	\$20,215		Table 2B for FY 2022-23, Table 2C for FY 2023-24.
25	Subtotal, Operations			\$466,500	\$502,500	\$524,076	\$546,618	\$570,170	\$594,780	
26	Maintenance & Repair			+,	+/	+	<i>+•·•</i> /•=•	+=:=)=:=	100	-
27	Pumps & Lines Maintenance	h		\$150,000	\$300,000	\$309,000	\$318,270	\$327,818	\$337.653	Table 2B for FY 2022-23, Table 2C for FY 2023-24.
28	Main Plant Maintenance	g		\$397,000	\$673,000	\$693,190	\$713,986	\$735,405		Table 2B for FY 2022-23, Table 2C for FY 2023-24.
29	Paradise Plant Maintenance	g		\$24,500	\$29,500	\$30,385	\$31,297	\$32,235	. ,	Table 2B for FY 2022-23, Table 2C for FY 2023-24.
30	Monitoring	b	i	\$57,500	\$90,000	\$92,865	\$95,821	\$98,871	. ,	Table 2B for FY 2022-23, Table 2C for FY 2023-24.
31	Permits and Fees	b		\$99,000	\$59,000	\$60,770	\$62,593	\$64,471	\$66,405	Table 2B for FY 2022-23, Table 2C for FY 2023-24.
32	Truck Maintenance	b		\$35,000	\$50,000	\$51,500	\$53,045	\$54,636	\$56,275	Table 2B for FY 2022-23, Table 2C for FY 2023-24.
32 33	Subtotal, Maintenance & Repair			\$763,000	\$1,201,500	\$1,237,710	\$1,275,011	\$1,313,437	\$1,353,020	
34										-
35	Administrative Expenses	b		\$414,290	\$471,390	\$485,532	\$500,098	\$515,101	\$530,554	Table 2D FY 2022-23, Table 1D
36										
37	Total Operating Expenses			\$4,574,629	\$5,122,414	\$5,298,402	\$5,480,775	\$5,669,781	\$5,865,676	
38										
39	Non-Operating Revenue									
40	Property taxes	у		\$0	\$0	\$0	\$0	\$0		From Table 3D, Table 1D
41	Other User Fees			(\$38,700)	(\$38,700)	(\$38,700)	(\$38,700)	(\$38,700)		District Budget
42 43	Inspection Fees			(\$17,000)	(\$20,000)	(\$20,000)	(\$20,000)	(\$20,000)		District Budget
43	SASM Expense Reimbursement			(\$100,000)	(\$100,000)	(\$100,000)	(\$100,000)	(\$100,000)		District Budget
44	Other Income			(\$100)	(\$100)	(\$100)	(\$100)	(\$100)		District Budget
45	Subtotal, Non-Operating Revenue			(\$155,800)	(\$158,800)	(\$158,800)	(\$158,800)	(\$158,800)	(\$158,800)	
46	Debt Service									
47	2022 Bond			\$760,168	\$760,412	\$760,284	\$759,784	\$758,912	\$757,668	From Table 6
48	Transfers To/(From) Reserves									
49	Capital Replacement			\$2,869,500	\$2,710,997	\$2,710,997	\$2,710,997	\$2,710,997		From Table 5
50	Disaster Recovery			\$0	\$0	\$0	\$0	\$0		From Table 4
51	Retirement			\$0	\$0	\$0	\$0	\$0		From Table 4
52	Subtotal, Transfers			\$2,869,500	\$2,710,997	\$2,710,997	\$2,710,997	\$2,710,997	\$2,710,997	
53	Net Revenue Requirement			\$8,048,497	\$8,435,023	\$8,610,883	\$8,792,756	\$8,980,890	\$9,175,541	To Tables 3A

r	A B	С	D	-
1	A B Sanitary District No. 5 of Marin County	U	D	E
2	2023-24 Cost of Service Wastewater Rate Study			
3	Table 2B. FY 2022-23 Revenue Requirement			
4	Table 2B. FT 2022-25 Revenue Requirement			
5	FY 2022-23 Operating Expenses	Total Expense		
6	Admin	Total Expense		
7	Advertising	\$1,000		
8	Audit & Accounting	\$40,000		
9	Consulting Fees	\$100,000		
10	Travel & Meetings	\$17,000		
11	Continuing Education	\$10,000		
12	County Fees	\$16,590		
13	Director Fees	\$9,000		
14	Dues & Subscriptions	\$31,000		
15	Elections	\$9,000		
16	Insurance PLP General Liability	\$85,000		
17	Insurance APIP (Real) Property	\$25,000		
18	Insurance Damage - Auto	\$4,500		
19	Legal	\$50,000		
20	Office Supplies	\$10,000		
21	Postage	\$1,200		
22	Pollution Prevention	\$5,000		
23	Miscellaneous	\$0		
24	Subtotal Admin			
25		, ,		
26	Pumps & Lines			
27	, Pumps & Lines Maint.	\$100,000		
28	Emergency Line Repairs	\$50,000		
29	Subtotal Pumps & Lines	\$150,000		
30				
31	Main Plant Maint			
32	Plant Maint Supplies	\$27,000		
33	Plant Maint. Parts & Service	\$150,000		
34	Janitorial Supplies & Service	\$9,000		
35	Main Plant Chemicals	\$120,000		
36	Lab Supplies & Chemicals	\$21,000		
37	Electrical & Instrument	\$15,000		
38	Grounds Maintenance	\$5,000		
39	Main Plant Sludge Disposal	\$50,000		
40	Subtotal Plant Maint	\$397,000		
41				
42	Paradise Cove Maint			
43	PC Parts & Service	\$15,000		
44	PC Supplies & Chemicals	\$6,500		
45	PC Sludge Disposal	\$3,000		
46	Subtotal Paradise Cove Maint	\$24,500		
47				
48	Monitoring			
49	Main Plant Lab Monitoring	\$45,000		
50	PC Monitoring	\$12,500		
51	Main Plant Outfall SASM	\$0		
52	Subtotal Monitoring	\$57,500		

		C	D	E
1	A B Sanitary District No. 5 of Marin County	С	D	E
2	2023-24 Cost of Service Wastewater Rate Study			
3	Table 2B. FY 2022-23 Revenue Requirement			
53	Table 2B. FT 2022-25 Revenue Requirement			
54	Permits/Fees			
55	Main Plant NPDES Renewal	\$40,000		
	Permits/Fees - General			
56 57	PC Permits/Fees	\$50,000		
58	Subtotal Permits/Fees	\$9,000		
59	Subtotal Permits/Pees	\$99,000		
59 60	Truck Maintenance			
61	Fuel	¢15.000		
62	Truck Maintenance	\$15,000 \$20,000		
63	Subtotal Truck Maintenance	\$20,000		
64	Subtotal Huck Maintenance	\$55,000		
65	Salaries & Benefits			
66	Salaries	\$1,504,000		
67	Overtime	\$1,304,000		
68	Standby Pay	\$125,000		
69				
70	Employee Incentives	\$60,000		
70	Vacation Buyout	\$65,000		
72	Payroll Taxes	\$155,965		
72	Defered Comp Match	\$78,000		
73	Payroll fees Car Allowance	\$7,000		
74		\$6,000 \$262,992		
76	PERS Monthly Contributions PERS Replacement Benefit Fund	\$202,992		
70				
78	Employee Health, Dental, Vision, Etc. Retiree Health	\$319,272 \$91,592		
79	Worker's Comp Insurance	\$57,268		
80	Subtotal Salaries & Benefits	\$2,812,439		
81	Subtotal Salaries & Deficitits	<i>\$2,812,439</i>		
82	Other Operating Expenses			
83	Data/Alarms/IT Support & Licensing	\$80,000		
84	Safety	\$60,000		
85	Personal Protective Equipment/Uniforms	\$00,000		
86	Main Plant Telephone	\$11,000		
87	Paradise Cove Telephone	\$500		
88	Pumps & Lines Telephone	\$7,000		
89	Subtotal Other Operating Expenses	\$173,500		
90		Ş175,500		
91	Utilities			
92	Water	\$8,000		
93	Main Plant Utilities	\$220,000		
94	Paradise Cove Utilities	\$20,000		
95	Pump Station Utilities	\$45,000		
96	Subtotal Utilities	\$293,000		
97	Subtotal Otifies	<i>4233,</i> 000		
97	Total On Expanses	ÉA 456 330		
98 99	Total Op Expenses	\$4,456,229		
99				

	A B	С	D	E
1	A B Sanitary District No. 5 of Marin County	U U	U	
2	2023-24 Cost of Service Wastewater Rate Study			
3	Table 2C. FY 2023-24 Revenue Requirement			
4				
5	FY 2023-24 Operating Expenses	Total Expense		
6	Admin	rotal Expense		
7	Advertising	\$2,000		
8	Audit & Accounting	\$40,000		
9	Consulting Fees	\$100,000		
10	Travel & Meetings	\$23,000		
11	Continuing Education	\$10,000		
12	County Fees	\$16,590		
13	Director Fees	\$9,000		
14	Dues & Subscriptions	\$33,000		
15	Elections	\$0 \$0		
16	Insurance PLP General Liability	\$60,000		
17	Insurance APIP (Real) Property	\$100,000		
18	Insurance Damage - Auto	\$10,000		
19	Legal	\$50,000		
20	Office Supplies	\$11,000		
21	Postage	\$1,300		
22	Pollution Prevention	\$5,500		
23	Miscellaneous	\$0		
24	Subtotal Admin	\$471,390		
25				
26	Pumps & Lines			
27	Pumps & Lines Maint.	\$200,000		
28	Emergency Line Repairs	\$100,000		
29	Subtotal Pumps & Lines	\$300,000		
30				
31	Main Plant Maint			
32	Plant Maint Supplies	\$80,000		
33	Plant Maint. Parts & Service	\$300,000		
34	Janitorial Supplies & Service	\$10,000		
35	Main Plant Chemicals	\$165,000		
36	Lab Supplies & Chemicals	\$25,000		
37	Electrical & Instrument	\$30,000		
38	Grounds Maintenance	\$8,000		
39	Main Plant Sludge Disposal	\$55,000		
40	Subtotal Plant Maint	\$673,000		
41				
42	Paradise Cove Maint	A		
43	PC Parts & Service	\$20,000		
44	PC Supplies & Chemicals	\$6,500		
45	PC Sludge Disposal	\$3,000		
46	Subtotal Paradise Cove Maint	\$29,500		
47	Monitoring			
48	Monitoring	¢50.000		
49	Main Plant Lab Monitoring	\$50,000		
50	Main Plant Chronic Tox Screening PC Monitoring	\$15,000		
51 52	PC Monitoring Main Plant Outfall SASM	\$10,000		
52 53		\$0		
53 54	Subtotal Monitoring	\$75,000		
94				

⁵⁴ HF&H Consultants, LLC

1	A B Sanitary District No. 5 of Marin County	С	D	E
2				
	2023-24 Cost of Service Wastewater Rate Study			
3	Table 2C. FY 2023-24 Revenue Requirement			
55	Permits/Fees	ćo		
56	Main Plant NPDES Renewal	\$0 ¢50.000		
57	Permits/Fees - General	\$50,000		
58	PC Permits/Fees	\$9,000		
59	Subtotal Permits/Fee	\$59,000		
60 61	Truck Maintenance			
_	Fuel	¢20.000		
62	Truck Maintenance	\$20,000		
63 64	Subtotal Truck Maintenance	\$30,000		
65		\$50,000		
66	Salaries & Benefits			
67	Salaries	\$1,598,548		
68	Overtime	\$1,598,548		
	Standby Pay			
69 70	Employee Incentives	\$80,000 \$60,000		
70	Vacation Buyout	\$80,000		
72	Payroll Taxes	\$110,000		
72	Defered Comp Match			
73	Payroll fees	\$65,000 \$7,000		
74	Car Allowance			
75	PERS Monthly Contributions	\$6,000		
	,	\$272,332		
77	PERS Replacement Benefit Fund	\$0		
78	Employee Health, Dental, Vision, Etc.	\$290,000		
79	Retiree Health	\$80,144		
80	CERBT/OPEB Current Employer Contribut			
81	Worker's Comp Insurance Subtotal Salaries & Benefit:	\$58,000		
82 83	Subtotal Salaries & Benefits	\$2,947,024		
	Other Orientian Fundament			
84	Other Operating Expenses	¢100.000		
85	Data/Alarms/IT Support & Licensing	\$100,000		
86	Safety Borconal Protoctive Equipment (Uniforms	\$60,000		
87	Personal Protective Equipment/Uniforms			
88 89	Main Plant Telephone Paradise Cove Telephone	\$11,000 \$500		
89 90				
90 91	Pumps & Lines Telephone	\$7,000		
91	Subtotal Other Operating Expenses	\$193,500		
92 93	Utilities			
93 94	Water	\$9,000		
94 95	Main Plant Utilities	\$9,000		
95 96	Paradise Cove Utilities	\$22,000		
90 97	Pump Station Utilities	\$48,000		
97 98	Subtotal Utilities			
98 99	Subtotal Utilities	\$309,000		
	Total On Evenement	ér 107 11 -		
100	Total Op Expenses	\$5,107,414		
101				

A	В	С	D	E	F	G	Н	I
1 Sai	nitary District No. 5 of Marin County	•			•			
2 202	23-24 Cost of Service Wastewater Rate Study							
3 Tal	ble 3A. Revenue Increases							
4								
5								
6		Budgeted			Projected			
7		FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28 N	otes
В	One combined zone							
9	Revenue Without Rate Increases							
0	Revenue from current rates	\$5,030,902	\$4,903,101	\$4,911,724	\$4,920,347	\$4,928,970	\$4,937,593 Fr	om Table 3B
1	Net Revenue Requirement	(\$8,048,497)	(\$8,435,023)	(\$8,610,883)	(\$8,792,756)	(\$8,980,890)	(\$9,175,541) Fr	
2	Surplus/(Deficit) before rate increase	(\$3,017,595)	(\$3,531,922)	(\$3,699,159)	(\$3,872,409)	(\$4,051,920)	(\$4,237,948) To	o Table 4
3	-							
4	Revenue With Rate Increases							
5	Revenue from current rates	\$5,030,902	\$4,903,101	\$4,911,724	\$4,920,347	\$4,928,970	\$4,937,593 Fr	om above
6	_							
17	Rate Increase	0.0%	13.0%	10.0%	10.0%	10.0%		om Table 1A
8	Cumulative rate increase	0.0%	13.0%	24.4%	36.8%	50.5%	65.5% To	Table 1A
9								
20	Revenue from rate increases							
1	FY 22-23 (effective 7/1/22)	\$0	\$0	\$0	\$0	\$0	\$0	
2	FY 23-24 (effective 7/1/23)		\$639,808	\$640,933	\$642,058	\$643,184	\$644,309	
3	FY 24-25 (effective 7/1/24)			\$555,266	\$556,241	\$557,215	\$558,190	
2 3 4 5 6	FY 25-26 (effective 7/1/25)				\$611,865	\$612,937	\$614,009	
25	FY 26-27 (effective 7/1/26)					\$674,231	\$675,410	
26	FY 27-28 (effective 7/1/27)	4.0	1000 000			10 10	\$742,951	
2	Subtotal of rate increases	\$0	\$639,808	\$1,196,199	\$1,810,164	\$2,487,567	\$3,234,870	
3	Total Rate Revenue	\$5,030,902	\$5,542,909	\$6,107,923	\$6,730,511	\$7,416,537	\$8,172,463	
4	Net Revenue Requirement	(\$8,048,497)	(\$8,435,023)	(\$8,610,883)	(\$8,792,756)	(\$8,980,890)	(\$9,175,541) Fr	
5	Surplus/(Deficit) transferred to Consolidated Reserve	(\$3,017,595)	(\$2,892,114)	(\$2,502,960)	(\$2,062,246)	(\$1,564,353)	(\$1,003,078) To	1 able 4
6 7								
7								

	A B	С	D	E	F	G	Н	1	1 1
1	Sanitary District No. 5 of Marin County	C	D	E	Г	G	п	I	5
2	2023-24 Cost of Service Wastewater Rate	Study							
3	Table 3B. Revenues at Current Rates	,							
4		Table 1D							
5		Escalation	Estimated			Projected			
6		Factor	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	Notes
7	Equivalent Dwelling Units	-	11 2022 23	11 2020 24	11 2024 25	11 2020 20	11202027	11202/20	10165
8	Tiburon								
9	Residential - Tiburon	i	1,857.50	1,861.50	1,864.69	1,867.88	1,871.06	1,874.25	
10	Commercial/Mixed Use	i	609.68	473.92	474.73	475.55	476.36	,	FY 2023-24 EDUs adjusted to reflect 75 hcf = 1 EDU
11			2,467.18	2,335.42	2,339.42	2,343.42	2,347.42	2,351.42	
12			_,	_,	_,		_,	_,	
13	Paradise Cove - Residential	t	131.00	131.00	131.50	132.00	132.50	133.00	
14		L L	101100	101100	101100	102100	102100	100.000	
15	Belvedere								
16	Residential	0	1,056.00	1,058.00	1,060.00	1,062.00	1,064.00	1,066.00	
17	Commercial/Mixed Use	0	125.05	127.30	127.30	127.30	127.30		FY 2023-24 EDUs adjusted to reflect 75 hcf = 1 EDU
18			1,181.05	1,185.30	1,187.30	1,189.30	1,191.30	1,193.30	,
19	Total EDUs		3,779.23	3,651.72	3,658.22	3,664.72	3,671.22	3,677.72	Rows 11, 13, and 18
20	Annual change			-3.37%	0.18%	0.18%	0.18%	0.18%	Compared to prior year
21	Percent of total EDUs								
22	Tiburon		65.28%	63.95%	63.95%	63.95%	63.94%	63.94%	
23	Paradise Cove		3.47%	3.59%	3.59%	3.60%	3.61%	3.62%	
24	Belvedere		31.25%	32.46%	32.46%	32.45%	32.45%	32.45%	
25		-	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	
26	Current Sewer Service Charges								
27	Tiburon		\$1,034	\$1,034	\$1,034	\$1,034	\$1,034	\$1,034	
28	Paradise Cove		\$1,034	\$1,034	\$1,034	\$1,034	\$1,034	\$1,034	
29	Belvedere		\$1,985	\$1,985	\$1,985	\$1,985	\$1,985	\$1,985	
30	Revenue From Current Rates								
31	Tiburon		\$2,551,064	\$2,414,826	\$2,418,962	\$2,423,098	\$2,427,235	\$2,431,371	
32	Paradise Cove		\$135,454	\$135,454	\$135,971	\$136,488	\$137,005	\$137,522	
33	Belvedere	-	\$2,344,384	\$2,352,821	\$2,356,791	\$2,360,761	\$2,364,731	\$2,368,701	
34			\$5,030,902	\$4,903,101	\$4,911,724	\$4,920,347	\$4,928,970	\$4,937,593	To Table 3A
35	Tax Revenue/EDU								
36	Tiburon Tax Revenue		\$1,185,133	\$1,206,814	\$1,228,892	\$1,251,374	\$1,274,266		To Table 2A
37	Eligible Tiburon EDUs		2,467.18	2,331.42	2,331.42	2,331.42	2,331.42	2,331.42	
38	Tax revenue per EDU		\$457	\$491	\$500	\$509	\$518	\$528	
39	Paradise Cove Tax Revenue		\$0	\$0	\$0	\$0	\$0	\$0	
40	Paradise Cove EDUs		128.00	128.00	128.00	128.00	128.00		From above less 3 sanitary units, per County
41	Tax revenue per EDU		\$457	\$491	\$500	\$509	\$518	\$528	

	A B	С	D	F	F	G	н	1	L.
1	Sanitary District No. 5 of Marin County	5	5	-	•	5		ı	, v
	2023-24 Cost of Service Wastewater Rate Study								
3	Table 4. Reserves								
4									
5									
6			Budgeted			Projected			
7		FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	Notes
8	General Operating Fund								
9	Revenue Increase								
10	Annual increases		0.0%	13.0%	10.0%	10.0%	10.0%	10.0%	From Table 1A
11	Beginning Balance		\$6,142,954	\$4,362,760	\$2,712,661	\$1,459,350	\$659 <i>,</i> 017	\$374,070	-
12									
13	Operating Surplus/(Deficit)		(\$3,017,595)	(\$2,892,114)	(\$2,502,960)	(\$2,062,246)	(\$1,564,353)		From Table 3A
14	Ad-Valorem Revenue		\$1,185,133	\$1,206,814	\$1,228,892	\$1,251,374	\$1,274,266		Table 1B Factor z.
15	Subtotal		(\$1,832,462)	(\$1,685,300)	(\$1,274,068)	(\$810,872)	(\$290,087)	\$294,500	
16	Transfers (To)/From			-			-		
17	Capital Replacement Reserve		\$0	\$0	\$0	\$0	\$0	\$0	
18	Capital Expansion Reserve	-	\$0	\$0	\$0	\$0	\$0	\$0	<u> </u>
19	Fund Balance Subtotal		\$4,310,493	\$2,677,460	\$1,438,593	\$648,478	\$368,930	\$668,570	
20 21 22 23	Interest Earnings		\$52,267	\$35,201	\$20,756	\$10,539	\$5,140		Table 1B Factor a .
21	Ending Balance	\$6,142,954	\$4,362,760	\$2,712,661	\$1,459,350	\$659,017	\$374,070	\$673,783	
22	Minimum Balance	\$2,500,000	\$2,500,000	\$2,575,000	\$2,652,250	\$2,731,818	\$2,813,772	\$2,898,185	Current District Policy, escalated 3% annually
23									
24	Consolidated Capital Replacement Reserve		47 5 40 050	47 040 000	******	47	4	40.000.000	
25	Beginning Balance		\$7,542,858	\$7,819,286	\$8,816,273	\$7,641,811	\$7,675,117	\$8,809,302	
26 27	Capital Replacement Projects		(\$2,869,500)	(\$2,046,774)	(\$4,217,340)	(\$3,003,894)	(\$1,908,824)	(\$2,378,152)	
27	Consolidated Connection Fees		\$200,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	Per District Budget FY 2023-24
28	Transfers (To)/From		ćo	ćo	ćo	ćo	ćo	ćo	
29 30	Disaster Recovery Reserve		\$0	\$0	\$0	\$0	\$0	\$0	T. T.I.I. 24
30 31	Revenue Requirements		\$2,869,500	\$2,710,997	\$2,710,997	\$2,710,997	\$2,710,997		To Table 2A
31	General Operating Fund		\$0 \$2,869,500	\$0 \$2,710,997	\$0 \$2,710,997	\$0 \$2,710,997	\$0 \$2,710,997	\$0 \$2,710,997	
32	Subtotal, Transfers Fund Balance Subtotal	-	\$7,742,858	\$2,710,997 \$8,733,509	\$7,559,930	\$7,598,913	\$8,727,290	\$9.392.147	-
33 34	Interest Earnings		\$7,742,858 \$76,429	\$8,733,509 \$82,764	\$7,559,930 \$81,881	\$7,598,913 \$76,204	\$8,727,290 \$82,012	1 - / /	Table 1B Factor a.
34	Ending Balance	\$7,542,858	\$7,819,286	\$8,816,273	\$7,641,811	\$7,675,117	\$8,809,302	\$9,483,154	Table 1B Factor a.
35 36	Target Balance		\$15,000,000	\$15,000,000	\$15,000,000				Current District Policy
37	Turget Bulance	<i>Ş13,000,000</i>	\$13,000,000	<i>Ş</i> 13,000,000	<i>\$13,000,000</i>	\$13,000,000	<i>\$13,000,000</i>	<i>Ş13,000,000</i>	current District Folicy
38	Disaster Recovery Fund								
39	Beginning Balance		\$1,000,000	\$1,010,000	\$1,020,100	\$1,030,301	\$1,040,604	\$1,051,010	
40	Transfers (To)/From		+ 1,000,000	+ 1,0 10,000	+1,020,200	+ 1,000,001	÷ 2,0 .0,004	+1,001,010	
41	Capital Replacement Reserve		\$0	\$0	\$0	\$0	\$0	\$0	
42	Revenue Requirements		\$0	\$0	\$0	\$0	\$0	\$0	
42 43 44 45	Fund Balance Subtotal		\$1,000,000	\$1,010,000	\$1,020,100	\$1,030,301	\$1,040,604	\$1,051,010	-
44	Interest Earnings		\$10,000	\$10,100	\$10,201	\$10,303	\$10,406		Table 1B Factor a.
45	Ending Balance	\$1,000,000	\$1,010,000	\$1,020,100	\$1,030,301	\$1,040,604	\$1,051,010	\$1,061,520	-
46	Target Balance	\$1,000,000	\$1,000,000	\$1,030,000	\$1,060,900	\$1,092,727	\$1,125,509		Current District Policy, escalated 3% annually
47	~	•							
48	Consolidated Retirement Reserve (Pay-As-You-Go))							From North Bay Pensions Exh 2a
49	Beginning Balance		\$1,000,000	\$1,010,000	\$1,020,100	\$1,030,301	\$1,040,604	\$1,051,010	
50	Benefits Paid		\$0	\$0	\$0	\$0	\$0	\$0	
51	Transfers (To)/From								
52 53	Revenue Requirements		\$0	\$0	\$0	\$0	\$0		To Table 2A
53	Fund Balance Subtotal		\$1,000,000	\$1,010,000	\$1,020,100	\$1,030,301	\$1,040,604	\$1,051,010	-
54	Interest Earnings		\$10,000	\$10,100	\$10,201	\$10,303	\$10,406	\$10,510	Table 1B Factor a.
55	Ending Balance	\$1,000,000	\$1,010,000	\$1,020,100	\$1,030,301	\$1,040,604	\$1,051,010	\$1,061,520	-
56	Target Balance	\$1,000,000	\$1,000,000	\$1,030,000	\$1,060,900	\$1,092,727	\$1,125,509	\$1,159,274	Current District Policy, escalated 3% annually
57									

А	В	С	D	E	F	G	Н	I	J	К
1 Sani	tary District No. E of Marin County				•					

AB	С	D	E	F	G	Н	I	J	К
1 Sanitary District No. 5 of Marin Count									
2 2023-24 Cost of Service Wastewater R	ate Study								
3 Table 5. Capital Improvements									
4 5									
6		Budgeted			Proje	ected			7
7		FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	5-Year Total	Notes
8 Treatment Plant		11 2022 25	11 2020 24	11 2024 25	11 2020 20	11 2020 27	11 2027 20	5 1001 10001	All projects per District FY 2023-2
9 Wet Weather Influent Pump		\$0	\$0	\$0	\$0	\$75,000	\$0	\$75,000	provided by email on 3/10/2023
10 Secondary Clarifier Scum Collect	or Project		\$300,000	\$0	\$0	\$0	\$0	\$300,000	, , , ,
11 Dry Weather Influent Pump	· · · · · ·	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
12 Main Plant Boiler Replacement		\$0	\$0	\$0	\$0	\$0	\$0	\$0	
13 Headworks Influent Screen Proje	ect		\$0	\$0	\$0	\$0	\$0	\$0	
14 Headworks Grinder Replacemen		\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	
15 Main Plant Electric Roll Up Door	Install	\$0	\$75,000	\$0	\$0	\$0	\$0	\$75,000	
16 MP Corrosion Protection Project			\$150,000	\$0	\$0	\$0	\$0	\$150,000	
17 Chemical Feed Transfer Pump		\$0	\$0	\$0	\$0	\$0	\$0	\$0	
18 (Utility) Truck purchase		\$75,000	\$0	\$0	\$0	\$200,000	\$0	\$200,000	
19 Dewatering Redundancy - Screw	Press	\$0	\$0	\$0	\$0	\$0	\$300,000	\$300,000	
20 Aeration Basin Diffuser Upgrade		\$0	\$0	\$0	\$0	\$0	\$0	\$0	
21 Emergency Generator Replacem		\$0	\$0	\$0	\$0	\$0	\$0	\$0	
22 Maintenance Shop Rehabilitiation	n	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000	
23 MP Occupancy Project			\$0	\$750,000	\$750,000	\$0	\$0	\$1,500,000	
24 Headworks Grinder Retrofit - Cha		\$0	\$0	\$0	\$0	\$0	\$0	\$0	
25 Digester Roof Recoating and Clea		\$600,000	\$0	\$0	\$0	\$0	\$0	\$0	
26 Landscaping Improvements Proj			\$0	\$50,000	\$0	\$0	\$0	\$50,000	
27 Dry Weather Primary Tank Cover		\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	
28 Odor Control System Rehabilitat		\$0	\$0	\$0	\$0	\$0	\$0	\$0	
29 Headworks Valve and Check Valv	/e Repl	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
30 MP Switch Gear Improvements		\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	
31 HVAC Replacement Project		ćo.	\$0	\$0	\$0	\$200,000	\$0	\$200,000	
32 Chloride Flash Mixer		\$0	\$0	\$0	\$35,000	\$0	\$0	\$35,000	
33 Undesignated Capital Project		\$25,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000	
34 Subtotal, Treatment Plant 35		\$925,000	\$675,000	\$850,000	\$835,000	\$525,000	\$350,000	\$3,235,000	
36 Paradise Cove CIP									-
37 Sewer Line Rehabilitation Progra	m	\$0	\$0	\$200,000	\$100,000	\$100,000	\$100,000	\$500,000	
38 Grit Removal Project		ېن \$50,000	\$0 \$0	\$200,000 \$0	\$100,000 \$0	\$100,000 \$0	\$100,000 \$0	\$500,000 \$0	
39 Plant Grating Replacements - Fib	erglass	\$30,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$25,000	\$0 \$25,000	
40 Building Rehabilitation	CI BIUSS	\$0 \$0	\$0 \$0	\$0 \$0	\$250,000	\$0 \$0	\$23,000 \$0	\$250,000	
41 Blower Replacement		\$0 \$0	\$0 \$0	\$20,000	\$250,000	\$0 \$0	\$0 \$0	\$20,000	
42 UV Disinfection		\$0 \$0	\$0 \$0	\$20,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$20,000	
43 PC Access Improvements		φu	\$100,000	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$100,000	
44 Pump Replacement Program		\$25,000	\$0	\$50,000	\$0	\$0	\$0	\$50,000	
45 Paint Treatment Plant		\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	
46 Undesignated Capital Projects		\$0	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$125,000	
47 Subtotal, Paradise Cove		\$75,000	\$125,000	\$295,000	\$375,000	\$125,000	\$150,000	\$1,070,000	
48		,		,	,	,,	,	, ,,	

	А	В	С	D	E	F	G	Н		J	К
1	Sanitar	District No. 5 of Marin County									

	A B C	D	E	F	G	Н		J	К
Sa	anitary District No. 5 of Marin County								
20	023-24 Cost of Service Wastewater Rate Study								
Та	able 5. Capital Improvements								
									_
		Budgeted			Proje				
		FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	5-Year Total	Notes
)	Tiburon Zone Pumps & Lines CIP								
)	Sewer Line Rehabilitation Program	\$1,000,000	\$0	\$1,000,000	\$500,000	\$500,000	\$500,000	\$2,500,000	
	CCTV and I&I linvestigation Project		\$150,000	\$0	\$0	\$0	\$0	\$150,000	
	Pump & Valve Replacement Program	\$20,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000	
5	Force Main Rehabilitation - Multiple sites	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
ŀ	Force Main Rehabilitation TPS #2 - 357lf-6"	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
5	Force Main Rehabilitation TPS #4 - 3"	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
5	Force Main Rehabilitation TPS #3 - 379lf-6"	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
,	Force Main Rehabilitation TPS #5 - 1303lf-8"	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
3	Force Main Rehabilitation TPS #7 - 903lf-6"	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
)	Force Main Rehabilitation TPS #6		\$0	\$0	\$0	\$0	\$75,000	\$75,000	
)	Force Main Rehabilitation TPS #9		\$0	\$50,000	\$0	\$0	\$0	\$50,000	
	Man Hole Rehabilitation	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000	
2	TPS #2 Wet Well Rehab	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
3	TPS #3 Wet Well Rehab	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
ŀ	TPS #4 Wet Well Rehab	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000	
5	TPS #6 Wet Well Rehab	\$0	\$0	\$0	\$0	\$0	\$400,000	\$400,000	
5	TPS #7 Wet Well Rehab	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
,	TPS #8 Wet Well Rehab	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
3	TPS #9 Wet Well Rehab	\$0	\$0	\$350,000	\$0	\$0	\$0	\$350,000	
)	Portable Pump Replacement	\$0	\$0	\$0	\$50,000	\$0	\$0	\$50,000	
)	Undesignated Capital Projects	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$125,000	
	Subtotal, Tiburon Lines	\$1,095,000	\$325,000	\$1,525,000	\$675,000	\$625,000	\$1,100,000	\$4,250,000	
2									
3	Belvedere Zone Pumps & Lines CIP								
ŀ	Sewer Line Rehabilitation Program	\$100,000	\$0	\$500,000	\$250,000	\$250,000	\$250,000	\$1,250,000	
5	Pump & Valve Replacement Program	\$20,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000	
;	Force Main Rehabilitation - Multiple sites	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
'	BPS#1 Control Panel Replacement	\$500,000	\$600,000	\$600,000	\$0	\$0	\$0	\$1,200,000	
	CCTV and I&I Inspection		\$100,000	\$0	\$0	\$0	\$0	\$100,000	
3	BPS#2 Force Main&Wet Well Rehab	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
)					- A			\$0	
)	BPS#3 Force Main&Wet Well Rehab	\$0	\$0	\$0	\$0	\$0	\$0		
)	BPS#7 Wet Well Rehab	\$0 \$75,000	\$0 \$0	\$0	\$420,000	\$0	\$0	\$420,000	
-	BPS#7 Wet Well Rehab BPS#9, 10, 11 Wet Well Rehab	\$0 \$75,000 \$0	\$0 \$0 \$0	\$0 \$0	\$420,000 \$0	\$0 \$0	\$0 \$0	\$420,000 \$0	
)) 2 3	BPS#7 Wet Well Rehab BPS#9, 10, 11 Wet Well Rehab BPS#5, 8, 12 Wet Well Rehab	\$0 \$75,000 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0	\$420,000 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$420,000 \$0 \$0	
)) 2 }	BPS#7 Wet Well Rehab BPS#9, 10, 11 Wet Well Rehab BPS#5, 8, 12 Wet Well Rehab BPS#13 Force Main&Wet Well Rehab	\$0 \$75,000 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$420,000 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$420,000 \$0 \$0 \$0	
)) 2 3	BPS#7 Wet Well Rehab BPS#9, 10, 11 Wet Well Rehab BPS#5, 8, 12 Wet Well Rehab BPS#13 Force Main&Wet Well Rehab BPS#14 Force Main&Wet Well Rehab	\$0 \$75,000 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$420,000 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$420,000 \$0 \$0 \$0 \$0 \$0	
	BPS#7 Wet Well Rehab BPS#9, 10, 11 Wet Well Rehab BPS#5, 8, 12 Wet Well Rehab BPS#13 Force Main&Wet Well Rehab BPS#14 Force Main&Wet Well Rehab Power Feed Improvement Project (BPS#9, 10, 11)	\$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$420,000 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$420,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
	BPS#7 Wet Well Rehab BPS#9, 10, 11 Wet Well Rehab BPS#5, 8, 12 Wet Well Rehab BPS#13 Force Main&Wet Well Rehab BPS#14 Force Main&Wet Well Rehab Power Feed Improvement Project (BPS#9, 10, 11) San Rafael Ave Diverter Line Install	\$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$420,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$420,000 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000	
	BPS#7 Wet Well Rehab BPS#9, 10, 11 Wet Well Rehab BPS#5, 8, 12 Wet Well Rehab BPS#13 Force Main&Wet Well Rehab BPS#14 Force Main&Wet Well Rehab Power Feed Improvement Project (BPS#9, 10, 11) San Rafael Ave Diverter Line Install Man Hole Rehabilitation	\$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$11,000	\$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000	\$420,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000	\$420,000 \$0 \$0 \$0 \$0 \$0 \$25,000 \$125,000	
	BPS#7 Wet Well Rehab BPS#9, 10, 11 Wet Well Rehab BPS#5, 8, 12 Wet Well Rehab BPS#13 Force Main&Wet Well Rehab BPS#14 Force Main&Wet Well Rehab Power Feed Improvement Project (BPS#9, 10, 11) San Rafael Ave Diverter Line Install Man Hole Rehabilitation Undesignated Cap Projects	\$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000 \$25,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000	\$420,000 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000	\$420,000 \$0 \$0 \$0 \$0 \$0 \$25,000 \$125,000 \$125,000	
	BPS#7 Wet Well Rehab BPS#9, 10, 11 Wet Well Rehab BPS#5, 8, 12 Wet Well Rehab BPS#13 Force Main&Wet Well Rehab BPS#14 Force Main&Wet Well Rehab Power Feed Improvement Project (BPS#9, 10, 11) San Rafael Ave Diverter Line Install Man Hole Rehabilitation	\$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$11,000	\$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000	\$420,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000	\$420,000 \$0 \$0 \$0 \$0 \$0 \$25,000 \$125,000	
-	BPS#7 Wet Well Rehab BPS#9, 10, 11 Wet Well Rehab BPS#5, 8, 12 Wet Well Rehab BPS#13 Force Main&Wet Well Rehab BPS#14 Force Main&Wet Well Rehab Power Feed Improvement Project (BPS#9, 10, 11) San Rafael Ave Diverter Line Install Man Hole Rehabilitation Undesignated Cap Projects Subtotal, Belvedere	\$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0 \$11,000 \$68,500 \$774,500	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000 \$25,000 \$825,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000 \$1,200,000	\$420,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000 \$770,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000 \$350,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000 \$350,000	\$420,000 \$0 \$0 \$0 \$0 \$25,000 \$125,000 \$125,000 \$3,495,000	
-	BPS#7 Wet Well Rehab BPS#9, 10, 11 Wet Well Rehab BPS#5, 8, 12 Wet Well Rehab BPS#13 Force Main&Wet Well Rehab BPS#14 Force Main&Wet Well Rehab Power Feed Improvement Project (BPS#9, 10, 11) San Rafael Ave Diverter Line Install Man Hole Rehabilitation Undesignated Cap Projects	\$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000 \$25,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000	\$420,000 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000 \$350,000	\$420,000 \$0 \$0 \$0 \$0 \$0 \$25,000 \$125,000 \$125,000	
	BPS#7 Wet Well Rehab BPS#9, 10, 11 Wet Well Rehab BPS#5, 8, 12 Wet Well Rehab BPS#13 Force Main&Wet Well Rehab BPS#14 Force Main&Wet Well Rehab Power Feed Improvement Project (BPS#9, 10, 11) San Rafael Ave Diverter Line Install Man Hole Rehabilitation Undesignated Cap Projects Subtotal, Belvedere Total Planned Capital Spending	\$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$11,000 \$68,500 \$774,500 \$2,869,500	\$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000 \$25,000 \$825,000 \$825,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000 \$1,200,000 \$3,870,000	\$420,000 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000 \$770,000 \$2,655,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000 \$350,000 \$1,625,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000 \$350,000 \$1,950,000	\$420,000 \$0 \$0 \$0 \$25,000 \$125,000 \$3,495,000 \$12,050,000	From Table 10 Sector 6
	BPS#7 Wet Well Rehab BPS#9, 10, 11 Wet Well Rehab BPS#5, 8, 12 Wet Well Rehab BPS#13 Force Main&Wet Well Rehab BPS#14 Force Main&Wet Well Rehab Power Feed Improvement Project (BPS#9, 10, 11) San Rafael Ave Diverter Line Install Man Hole Rehabilitation Undesignated Cap Projects Subtotal, Belvedere	\$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0 \$11,000 \$68,500 \$774,500	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000 \$25,000 \$825,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000 \$1,200,000	\$420,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000 \$770,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000 \$350,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$25,000 \$25,000 \$350,000	\$420,000 \$0 \$0 \$0 \$25,000 \$125,000 \$3,495,000 \$12,050,000	From Table 1B Factor f.

	A B	С	D	E	F	G	Н	1 1
1	Sanitary District No. 5 of Marin Co	-	U	E	Г	G	п	
_	2023-24 Cost of Service Wastewate	•						
2	Table 6. Debt Service	er nate study						
_	Table 6. Debt Service							
4				Droit	at a d			
5		FV 2022 22	EV 2022 24	•	ected	EV 2026 27	51/ 2027 20	Netter
6		FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	Notes
7								
8	Bond - Existing							
9	Total P&I	760,168	760,412	760,284	759,784	758,912	757,668	From District CIP plan FY 2023-24 budget, email from 3/10/2023
10								
11	New Financing #1							
12	Principal							No plans for new issuance
13	Interest							
14	Total	-	-	-	-	-	-	
15								
16	Subtotal: Debt Service	760,168	760,412	760,284	759,784	758,912	757,668	
17	Other Costs							
18	Total Debt Service Payments	\$760,168	\$760,412	\$760,284	\$759,784	\$758,912	\$757,668	To Table 5
19								
20	DEBT COVERAGE RATIO - with	Rate Increase						
21								
22	Gross Revenue							
23	Service Charges	\$5,030,902	\$5,542,909	\$6,107,923	\$6,730,511	\$7,416,537	\$8,172,463	
24	Non-Operating Revenue	\$155,800	\$158,800	\$158,800	\$158,800	\$158,800	\$158,800	
25	Connection Fees	\$200,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	
26	Total Gross Revenue	\$5,386,702	\$5,951,709	\$6,516,723	\$7,139,311	\$7,825,337	\$8,581,263	
27	Less: Total O&M Expenses	(4,574,629)	(5,122,414)	(5,298,402)	(5,480,775)	(5,669,781)	(5,865,676)	
28	Net Available Revenues	812,073	829,295	1,218,321	1,658,535	2,155,556	2,715,587	-
29		,	,		, ,			
30	Total Debt Service Payments							
31	Debt Coverage Ratio	1.07	1.09	1.60	2.18	2.84	3.58	
32	Target	1.25	1.25	1.25	1.25	1.25	1.25	
33		1120	1120	1120	1120	1.20	1120	
34								
35	DEBT COVERAGE RATIO - NO R	ate Increase						
36								
37	Gross Revenue							
38	Service Charges	\$5,030,902	\$4,903,101	\$4,911,724	\$4,920,347	\$4,928,970	\$4,937,593	
39	Non-Operating Revenue	155,800	158,800	158,800	158,800	158,800	158,800	
40	Total Gross Revenue	5,186,702	5,061,901	5,070,524	5,079,147	5,087,770	5,096,393	-
40	Less: Total O&M Expenses	(4,574,629)	(5,122,414)	(5,298,402)	(5,480,775)	(5,669,781)	(5,865,676)	
	Net Available Revenues	612,073	(60,513)		(401,628)	(5,009,781)		
42 43	Net Available Nevenues	012,073	(00,515)	(227,878)	(401,028)	(362,011)	(769,283)	
43 44	Total Daht Comics Down							
	Total Debt Service Payments	0.01	0.00	0.20	0.53	0.77	4.00	
45	Debt Coverage Ratio	0.81	-0.08	-0.30	-0.53	-0.77	-1.02	
46	Target	1.25	1.25	1.25	1.25	1.25	1.25	

Α	В	С	D	E	F	G	Н	I	J	К	L	М
Sanitary	District No. 5 of Marin County											

2 2023-24 Cost of Service Wastewater Rate Study

Sanitary Billing Units FY 2023-24	Tiburon	Paradise Cove	Belvedere	Total
Residential				
Single family	1,272.50	131.00	881.00	2,284.50
Multi-Family	585.00	0.00	175.00	760.00
Non-Residential	473.92	0.00	127.30	601.22
Growth (Residential)	4.00	0.00	2.00	6.00
Total Billing Units	2,335.42	131.00	1,185.30	3,651.72

	FY 2023-24	% of	Charge	FY 2023-24	% of
	Sanitary Units	Total	(\$/EDU)	Revenue	Total
Residential					
Base Rate	1,065.00		\$1,848	\$1,968,511	
Ad-Valorem Credited	1,985.50		\$1,358	\$2,695,668	
	3,050.50	84%		\$4,664,179	84%
Non-Residential					
Base Rate	127.30		\$1,848	\$235,297	
Ad-Valorem Credited	473.92		\$1,358	\$643,433	
	601.22	16%		\$878,730	16%
Total Billed Sanitary Units	3,651.72	100%		\$5,542,909	100%

FY 2023-24 Units of Service Calculation		
Total Revenue Requirement	\$8,593,823	
(Less) Miscellaneous Fee Revenues ¹	(158,800)	From Table 2A, row 41-44.
Net Revenue Requirement	8,435,023	
(Less) Reserves to address shortfall after rate increase	(1,685,300)	
Revised Net Revenue Requirement	\$6,749,723	
Units of Service (EDUs)	3,651.72	FY 2023-24 units of service from Table 3B.
FY 2023-24 Base Sewer Service Charge per EDU	\$1,848	
(Less) Ad-Valorem Revenue per EDU	(\$491)	Ad-valorem revenue from Table 2A divided by elgible parcels from Table 3B.
FY 2023-24 Ad-Valorem Credited Sewer Service Charge per EDU	\$1,358	

¹includes SASM reimbursement, inspection fees, and other user fees.

Customer Areas	FY 2023-24 Total Sanitary Units (from tab 3B)	Sanitary units charged non-ad valorem	Sanitary units w/ ad-valorem credit	Tota
Belvedere	1,185.30	1,185.30	-	
Tiburon	2,335.42	4.00	2,331.42	
Paradise Cove	131.00	3.00	128.00	
	3,651.72	1,192.30	2,459.42	
Proposed Rate per EDU		\$1,848	\$1,358	
Rate Revenue		\$2,203,808	\$3,339,101	\$5,54
Ad-Valorem Revenue				\$1,20
Total Revenue				\$6,74

ad-valorem revenue to the District. The two parcels account for 3.00 sanitary units.