# RIO ALTO WATER DISTRICT



# WATER AND WASTEWATER RATE STUDY FINAL REPORT

November 21, 2023





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November 22, 2023

Martha Slack, General Manager Rio Alto Water District 22099 River View Drive Cottonwood, CA 96022

Re:

Water and Wastewater Rate Study

Bartle Wells Associates is pleased to submit to the Rio Alto Water District (District) the attached Final Water and Wastewater Rate Study. The study presents BWA's analysis of the operating and non-operating expenses of the District's water and wastewater funds and provides five-year cash flow projections and rates. The primary purpose of this study was to analyze the District's water & wastewater enterprise funds and make recommendations that would achieve their financial sustainability.

BWA finds that the rates and charges proposed in our report reflect the cost-of-service for each customer, follow generally accepted rate design criteria, and adhere to the substantive requirements of Proposition 218. BWA believes the proposed rates are fair and reasonable to the District's customers.

We have enjoyed working with the District on this rate study and appreciate the assistance of District staff members throughout the project. Please contact us with any future questions about this study and the rate recommendations.

Sincerely,

Douglas Dove, PE, CIPMA

Principal/ President

Erik Helgeson, MBA

Eik Helm

Vice President

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# 1 EXECUTIVE SUMMARY

# 1.1 Introduction

The District retained Bartle Wells Associates to develop a long-term financial plan and 5-year rate recommendations for the water and wastewater enterprises.

The revenues from the District's water and wastewater enterprises are primarily derived from charges for services. The District must establish rates and charges adequate to fund the cost of providing services, which includes costs for operations and maintenance, as well as capital improvements needed to keep the District's utility infrastructure in a safe and reliable operating condition.

The District has provided proactive financial stewardship by raising rates to keep revenues in line with the costs of providing water service. Those rate increases have enabled the District to maintain its financial health. The prior water rate increases strengthened the financial condition of the water enterprise. However, current rates are not adequate to fund the needed improvements and meet regulatory water quality and supply requirements.

# 1.2 Rate Study Objectives

Key goals and objectives of this study include developing rates that:

- Recover the costs of providing service, including operating, capital, and debt funding needs;
- Are proportionate, fair, and equitable to all customers;
- · Are easy to understand and implement;
- Comply with the substantive requirements of the California Constitution, Article 13D, Section 6 (which
  was adopted by the voters as Proposition 218 in 1996) and the general mandate of Article 10, Section 2
  that prohibits the wasteful use of water;
- Support the long-term operational and financial stability of the District.

BWA worked closely with District staff to incorporate information and input, evaluate alternatives, and develop recommendations. This report summarizes key findings and recommendations for water and wastewater rates over the next five years.

# 1.3 Current and Proposed Water Rates

BWA recommends the District consider transitioning to a uniform water rate structure. The following table shows the current and proposed water rates.

Table 1 - Current and Proposed Water Rates

Current and Proposed	Existing	Proposed Jan 1, 2024	Proposed	Proposed	Proposed	Proposed
Water Rates	FY 22-23	Jan I, Zuz4	JU! 1, 2024	Jui 1, 2023	JUI I, LVLU	JUL 2., EUE I
Volumetric Rates (\$/CCF)						
Base Use (0-15 CCF)	\$0.00					
Volumetric (>15 CCF)	\$1.30					
Uniform Rate (All CCF)		\$1.21	\$1.35	\$1.50	\$1.65	\$1.82
Bi-Monthly Fixed Charge						
Meter Size	:					
3/4"	\$42.87	\$37.03	\$41.10	\$45.62	\$50.18	\$55.20
1"	\$58.45	\$50.46	\$56.01	\$62.17	\$68.39	\$75,23
2"	\$144.15	\$123.81	\$137.43	\$152.55	\$167.81	\$184.59

# 1.4 Current and Proposed Wastewater Rates

The following table shows the current and proposed wastewater rates.

Table 2 - Current and Proposed Wastewater Rates

<b>Existing and Proposed</b>	Existing	Proposed	Proposed	Proposed	Proposed	Proposed
Sewer Rates	FY 22-23	Jan 1, 2024	Jul 1, 2024	Jul 1, 2025	Jul 1, 2026	Jul 1, 2027
Bi-Monthly Fixed Charges						
Single Family Resid.	\$89.18	\$102.68	\$115.52	\$127.07	\$139.78	\$153.76
1/2 single Fam Resid.	\$44.59	\$51.34	\$57.76	\$63.54	\$69.89	\$76.88
TriPlex sewer	\$267.56	\$308.08	\$346.59	\$381.25	\$419.38	\$461.32
Duplex Sewer	\$178.37	\$205.38	\$231.05	\$254.16	\$279.58	\$307.54
Sewer Extention	\$105.26	\$102.68	\$115.52	\$127.07	\$139.78	\$153.76
Low Pressure	\$105.26	\$130.14	\$146.41	\$161.05	\$177.16	\$194.88
Low Pressure Duplex	\$210.52	\$260.28	\$292.82	\$322.10	\$354.31	\$389.74
Commercial	\$202.46	\$233.06	\$262.19	\$288.41	\$317.25	\$348.98
Volumetric Charges						
Commercial	\$0.55	\$0.65	\$0.73	\$0.80	\$0.88	\$0.97

# 2 BACKGROUND, OBJECTIVES, AND LEGAL REQUIREMENTS

The Rio Alto Water District (District) is located east of I-5 about 20 miles south of the City of Redding in a community known as Lake California. The District provides water and wastewater services to over 1,400 customers in an area that encompasses more than 9 square miles.

The revenues from the District's water and wastewater utilities are primarily derived from charges for services. The District must establish rates and charges adequate to fund the cost of providing water and wastewater services, including costs for operations and capital improvements needed to keep District's utility infrastructure in safe and reliable operating condition.

The previous sewer rate study was performed in 2011 and the previous water rate study was last performed in 2016. Based on a survey of regional water and wastewater agencies, the District's rates are close to the regional average.

The District's water and wastewater utilities are financially self-supporting enterprises. Revenues are derived primarily from rates. As such, the District's water and wastewater rates must be set at adequate levels to fund the costs of providing service and:

- Fund ongoing operating and maintenance expenses
- Address regulatory requirements
- Fund the capital improvement projects, related debt service and associated increased operating costs
- Provide funding for system maintenance and upgrades

The prior water and wastewater rate increases strengthened the financial condition of the enterprises. However, current rates are not adequate to fund the needed improvements and operating costs and meet debt coverage requirements.

# 2.1 Rate Study Objectives

In 2023, the District retained BWA to develop a cost-of-service based rate study. The District has historically adopted rate increases in order to keep revenues in line with the escalating costs of providing service. Key goals and objectives of this study include developing rates that:

- Recover the costs of providing service, including operating, capital, and debt funding needs;
- Are proportionate, fair and equitable to all customers;
- Are easy to understand and implement;
- Comply with the substantive requirements of the California Constitution, Article 13D, Section 6 (which was adopted by the voters as Proposition 218 in 1996) and the general mandate of Article 10, Section 2 that prohibits the wasteful use of water;
- Support the long-term operational and financial stability of the District.

# 2.2 Rate Study Process

The general process used for this cost-of-service rate study is summarized in the following diagram.

Project Long-Prop. 218 Demand Cost Rate Initiation Range Financial Allocation Design **Process** and Data Analysis Collection Plan

Figure 1 - Cost-of-Service Rate Study Process

Key elements of the study include:

- 1) **Project Initiation and Data Collection** Review financial policies; collect financial and other relevant data; and review rate structures;
- 2) Demand Analysis Analyze past customer demands and customer characteristics to forecast future demands;
- 3) Long Range Financial Plans Develop financial projections to evaluate annual revenue requirements from rates and the overall level of rate increases needed to fund the costs of providing service and support longterm financial stability;
- 4) Cost Allocation Group the District's costs in terms of the function they serve as a basis to proportionally allocate the revenue requirement from rates;
- 5) Cost-of-Service Rate Design Develop rates that proportionately recover costs; and
- 6) Prop 218 Process Ensure compliance with the substantive and procedural requirements of Proposition 218.

# 2.3 Constitutional Requirements for Rates

The water rates proposed in this report are designed to comply with two key articles of the California Constitution: Article 13D and Article 10, as explained below.

# 2.3.1 Article 13D, Section 6

Proposition 218 was adopted by California voters in 1996 and added Articles 13C and 13D to the California Constitution. Article 13D, Section 6 governs property-related charges, which the California Supreme Court has ruled, includes rates imposed for water delivered through pipes connected to property. Article 13D, Section 6 establishes both a) procedural requirements for imposing or increasing property-related charges, and b)

substantive requirements for those charges. Article 13D requires voter approval for new or increased property-related charges but exempts rates for water, wastewater, and garbage service from this voting requirement if rates are adopted by the appropriate procedure and meet the substantive requirements. This report recommends water rates designed to comply with the substantive requirements of Proposition 218.

The substantive requirements of Article 13D, section 6 requires property-related charges, such as the District's water and wastewater rates, to meet the following conditions:

- 1) Revenues derived from the fee or charge shall not exceed the costs required to provide the propertyrelated service.
- 2) Revenues derived from the fee or charge shall not be used for any purpose other than that for which the fee or charge was imposed.
- 3) The amount of a fee or charge imposed upon any parcel or person as an incident of property ownership shall not exceed the proportional cost of the service attributable to the parcel.
- 4) No fee or charge may be imposed for a service unless that service is used by, or immediately available to the property in question.
- 5) No fee or charge may be imposed for general governmental services, such as police or fire services, where the service is available to the public at large in substantially the same manner as it is to property owners.

# 2.3.2 Article 10, Section 2

Article 10, Section 2 of the California Constitution states that:

It is hereby declared that because of the conditions prevailing in this State the general welfare requires that the water resources of the State be put to beneficial use to the fullest extent of which they are capable, and that the waste or unreasonable use or unreasonable method of use of water be prevented, and that the conservation of such waters is to be exercised with a view to the reasonable and beneficial use thereof in the interest of the people and for the public welfare.

# 2.4 Statute of Limitations

Pursuant to California Government Code 53759, there is a 120-day statute of limitations for challenging any new, increased, or extended fees. This statute of limitations applies to the water rates proposed in this rate study and is included in the Proposition 218 Notice.

# 3 PROJECTED WATER DEMAND AND CUSTOMER CHARACTERISTICS

# 3.1 Projected Water Demand

BWA uses a conservative approach when forecasting water use and growth projections in order to ensure the District is not dependent on population growth and water demand recovering from the recent drought. Projected FY 23/24 water demand is conservatively based on the lowest actual metered demand for the last five fully recorded years.

Table 3 - Historic and Projected Metered Demand

Customer Data	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24
The control of the co	Actual	Actual	Actual	Actual	Actual	Projected	Projected
Total Water Production (CCF)	254,283	248,214	268,254	271,507	246,452	227,070	226,614
Billed, Metered Consumption (CCF)	231,695	225,599	250,999	247,510	232,326	210,642	210,642
Water Loss (%)	8.9%	9.1%	6,4%	8.8%	5.7%	8%	8%
Total Accounts (#)	1,322	1,340	1,365	1,389	1,412	1,412	1,412
Growth (%)		1.36%	1.87%	1.76%	1.66%	0.00%	0.00%
Annual Metered Use (CCF) per Accoun	175	168	184	178	165	165	165

# 3.2 Water Services and Equivalent Capacity

The size of a customer's meter reflects the demand they require of the water system's capacity. A significant percentage of the costs of any water system is related to its requirement to deliver water to any customer instantaneously at any time, up to the maximum safe flow capacity of a customer's meter. Simply put, as the size of a customer's water meter increases, the instantaneous demand it can place on the District's water system increases. A meter equivalent unit (MEU) is the ratio of any meter's safe maximum flow to that of a 3/4" meter's. The safe maximum flow is based on the American Water Works Association's meter service equivalent standards. The proposed fixed rates by meter size are determined based on the number of MEU's. The following Table shows the current number of water accounts by meter size and the corresponding meter equivalent units.

Table 4 - Water Customers and Equivalent Demand Units

	N	leter Equivalent	Meter Equivalent
Meter Size	Services	Ratio**	Units (MEUs)
3/4"	1,226	1.0	1,226.0
1"	180	1.7	300.6
2"	6	5.3	32.0
Total	1,412.0		1,558.6

<sup>\*</sup> Customer data as of June 2023 provided by staff

<sup>\*\*</sup> Capacity factors based on AWWA operating capacity standards by meter size

# 4 WATER FINANCIAL PLAN

# 4.1 Water Financial Overview

BWA conducted an independent evaluation of water enterprise finances and concluded the previous rate increases have put the water enterprise in a sound financial position. Continual, gradual increases are projected to maintain its strong financial position.

The District relies almost solely on revenues from water rates to fund the costs of providing service. As such, water rates must be set at levels adequate to fund the costs of operating and maintaining the water system, and fund necessary capital improvements to keep the water system in good operating condition.

# 4.2 Key Drivers of Rate Increases

The District is facing several manageable financial challenges that will drive the need for rate increases in upcoming years. Key drivers of future rate increases are summarized below.

# Capital Improvement Funding Needs

The District's water system requires a steady stream of repair and improvement projects. Accounting for construction cost inflation, the District anticipates funding approximately \$1.7 million of capital improvement projects over the next 5 years.

# Ongoing Operating Cost Inflation

The District faces annual cost inflation due to annual increases in a range of expenses including staffing, utilities, insurance, supplies, etc. On top of rate increases needed for capital improvements, annual rate increases are needed to keep revenues aligned with cost inflation and prevent rates from falling behind the cost of providing service. Water cost inflation has historically been higher than the Consumer Price Index (CPI) for consumer goods and services. Historically inflation has typically remained consistently around 3%, but recently inflation has reached forty-year highs with the CPI and ENR CCI exceeding 7% in 2022. It is not expected that inflation will remain at such high levels in the future, so for the purposes of this rate study, average annual inflation is projected to be 4.5%.

## Water Reserve Funds

Maintaining a prudent minimal level of fund reserves provides a financial cushion for dealing with unanticipated expenses, revenue shortfalls, and emergency capital repairs. BWA developed a financial plan designed to maintain prudent reserve levels that are in-line with water utility industry standards.

## Debt Service Coverage

Most municipal debt requires that the issuer generate net operating revenues of 1.25 times the total annual debt service payment or greater. This is referred to as "debt service coverage". To support a strong credit rating and good financial health, the current BWA recommends the District maintain a minimum debt coverage ratio of 1.3 times the annual payment or greater.

# 4.3 Financial Plan Assumptions

The financial projections incorporate the latest information available and a number of reasonable and slightly conservative assumptions for planning purposes. Key assumptions include:

# **Revenue Assumptions**

- Water rate revenues are based on estimated revenues for the current fiscal year.
- Rates proposed to be adopted in December 2023 will be effective on January 1, 2024, with rate adjustments planned to become effective on July 1 of each of the subsequent four fiscal years beginning July 1, 2024.
- To be conservative and ensure revenues will be sufficient, BWA assumed growth to be two new single family connections added per year.
- Interest earnings are projected based on the annual beginning fund balance multiplied by the projected interest rate. The interest rate projections are conservatively based on recent and anticipated interest rates.

# **Expense Assumptions**

- Operating and maintenance costs are primarily based on the 2023/24 budget.
- Operating costs are projected to escalate at 4.5% per year to account for cost inflation.
- Debt service projections are based on outstanding debt schedules and projected issuances of new debt.
- Capital improvement costs are based on the most recent engineering cost estimates. Capital costs include a 4.5% annual construction cost inflation factor for the next five years.

# 4.4 Cash Flow Projections

Long-term cash-flow projections were developed based on assumptions and key drivers of future rate increases described above. The projections were used to determine the water utility's annual revenue requirements and project required water rate revenue increases. The long-term cash-flow projections incorporate the latest information available from the District's budget, annual reports, capital spending projections, and metered water demand data, as well as a number of reasonable assumptions developed with input from the District. The overall rate revenue increases shown for each of the following scenarios are designed to fund the District's cost of providing service and maintain roughly balanced budgets, healthy debt service coverage, and prudent reserves. The projections indicate the need for increases for water rate revenues for each of the next five fiscal years. Actual impacts to customers' water bills will vary based on meter size and water use, due to the outcome of the updated cost-of-service analysis.

In future years, the District can re-evaluate its finances and revenue requirements and adjust rates as needed based on updated projections. However, while the District always has the flexibility to implement rate adjustments that are lower than adopted pursuant to Proposition 218, future rates cannot exceed adopted increases without going through the Proposition 218 process again. Rates adopted pursuant to Proposition 218 are essentially future rate caps.

The following figure visually depicts the cash-flow projections with the proposed rate increases for the next five years. Projected expenses are summarized into key categories. The figure also shows the projected fund reserves at the end of each fiscal year.

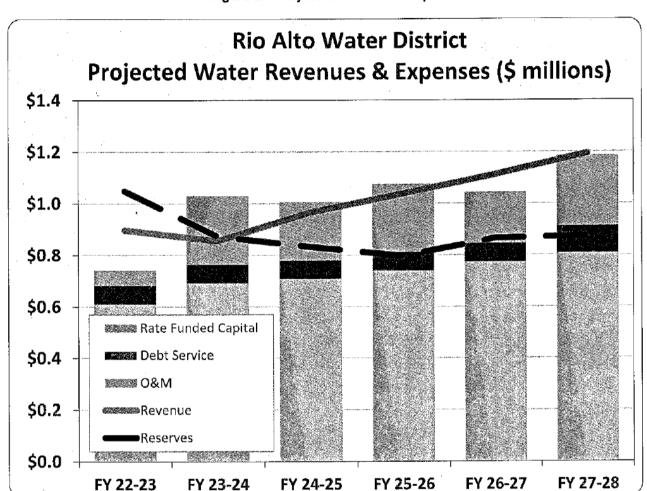


Figure 2 - Projected Cashflow Graph

Detailed, long-term, cash-flow projections for this scenario are shown in the following table.

Table 5 - Detailed Cash Flow Projections

Water Fund	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28
Rate Revenue Increase		11.0%	11.0%	11.0%	10.0%	10.0%
Beginning Reserves	\$891,721	\$1,048,042	\$872,974	\$832,601	\$796,570	\$865,417
Revenues				Andrew Property and Park Local Laboratory		
Rate Revenue	\$528,471	\$528,487	\$587,442	\$652,973	\$725,815	\$799,515
Rate Increase Revenue	0	58,134	64,619	71,827	72,582	79,951
Timing Adjustment*		-29,067				
Other Revenue	368,441	297,463	313,101	313,251	313,460	314,736
Total Revenue	\$896,912	\$855,017	\$965,161	\$1,038,051	\$1,111,857	\$1,194,202
Expenses						
Operating Expenses	\$609,837	\$692,408	\$708,151	\$739,254	\$773,319	\$807,283
Existing Debt Service	71,954	71,954	71,954	71,954	71,954	71,954
New Debt Service	0	0	0	0	0	34,000
Rate Funded Capital	\$58,800	\$265,722	\$225,429	\$262,874	\$197,737	\$272,295
Total Expenses	\$740,591	\$1,030,084	\$1,005,534	\$1,074,082	\$1,043,010	\$1,185,532
Net Revenues	\$156,321	\$175,067	\$40,373	-636,031	\$68.847	\$8,670
Ending Reserves	\$1,048,042	\$872,974	\$832,601	\$796,570	\$865,417	\$874,087
Debt Coverage	3.99	2.26	3.57	4.15	4.70	3.65

<sup>\*</sup>Reflects January rate implementation

#### COST-OF-SERVICE RATE DERIVATION 5

Article XIII D, Section 6 of the California Constitution (which was adopted by the voters in 1996 as a part of Proposition 218) requires that the District adopt only rates that meet a number of substantive requirements.

# Specifically:

- (1) Revenues derived from the water rates cannot exceed the funds required to provide water service.
- (2) Revenues derived from the water rates cannot be used for any purpose other than providing water
- (3) The amount of the water rates imposed upon any parcel or person as an incident of property ownership cannot exceed the proportional cost of the service attributable to the parcel.
- (4) Water rates may not be imposed unless the water service is used by, or immediately available to, the owner of the property in question.

Each water customer in the District is charged both a bi-monthly fixed rate and a volumetric rate based on the quantity of water delivered by the District to the customer. This reflects that (i) some system costs are based entirely on the actual quantity of water consumed, (ii) other system costs are fixed from the point of view of the District, but are a result of design decisions that were made to accommodate all users, including high-demand users, and (iii) some costs, particularly the cost of administering the water system, would be largely the same regardless of the volume of water consumed.

Water utilities have employed a wide range of approaches or perspectives for allocating and recovering their costs for providing service, often through a combination of fixed and variable charges. The percentage of revenues derived from the fixed and variable charges should be proportional to each system's expenditures and must not exceed the cost of providing service.

Many of the District's costs are fixed costs that do not vary by the level of service provided, such as operational and staff costs, as well as costs for building and maintaining infrastructure. Some of these costs are related to the number of customers, but most of the fixed costs are related to the total capacity of the water system. Fixed costs related to system capacity can reasonably be apportioned by meter size or variable, usage-based rate recovery in recognition that both units of measure reasonably reflect customer usage driving the District to incur capacityrelated costs. For example, a share of the fixed cost of salaries related to water production can reasonably be recovered from usage-based charges as these costs are incurred to provide water supply to meet customer demand or from a fixed charge based on a customer's meter size which reflects the magnitude of water a customer can pull from the water system. Likewise, debt service payments may be fixed annual costs, but it is reasonable to recover some of these costs from usage-based rates as the costs are incurred to fund infrastructure that will improve the water delivery system.

While there is no single correct approach, BWA believes that costs should be allocated within a reasonable range that reflects both a) underlying cost causation, to the extent such causation can reasonably be determined or estimated, and b) the policy preferences of the agency in cases where a range of reasonable approaches can be justified.

# 5.1 Rate Structure Scenarios

BWA developed and presented the following three rate structure scenarios to the Board:

- Scenario 1, 15 CCF Base Continue to include base use of 15 CCF with the meter charge
- Scenario 2, 10 CCF Base Include base use of 10 CCF with the meter charge
- Scenario 3 Uniform Rate Include no base use with the meter charge

BWA recommended the District consider transitioning to a uniform rate structure and the Board agreed and chose to move forward with Scenario 3.

# 5.2 Functional Allocation

There must be a cost-based nexus between the revenue requirement from the cash flow and the proposed rates. The nexus is created by allocating the expenses and offsetting non-rate revenues to functional components and then dividing each functional component's revenue requirements by the allocations units most reasonably related to each function. A functional component reflects a grouping of the utility's expenses whose magnitude is driven by the quantity of a specific unit-of-measure. For example, costs allocated to the customer functional component are driven by the number of customers served by the water enterprise.

The functional components used in this study are as follows:

- Customer Fixed costs are recovered per customer. Fixed costs or costs related to serving each customer were allocated to this category.
- Capacity Fixed costs are recovered per Meter Equivalent Unit (MEU). Fixed costs or costs related to system capacity were allocated to this category.
- All Volume Costs reasonably recovered volumetrically were allocated to this category. Volumetric costs are recovered per unit of volume (100 cubic feet (CCF)) based on all projected demand.

Related expenses and non-rate revenues were grouped into the following allocation categories before being allocated to each functional category:

- Transmission and Distribution expenses include the operating costs related to the District's potable water distribution systems. These costs are recovered from the All Volume functional component because they are sized to meet peak water demands.
- Administration Expenses and non-rate revenues were allocated to reflect that some administrative costs are driven by the number of customers (Customer) and some are driven by the size of the system (Capacity).
- Source of Supply expenses include the operating costs related to the wells. These costs are recovered partially from the Capacity and All Volume functional components because the wells must meet peak capacity but also provide redundancy.
- Debt Service and Capital expenses and non-rate revenues are allocated 60% to Capacity and 40% to All Volume because these costs are fixed or one-time expenses but are related to the overall capacity of the system which is driven by the projected volume of water sold.

The following tables show a breakdown of the water utility's expenses and offsetting revenues and how they are allocated by function. The proportional allocation is then applied to the rate revenue requirement so that the rates are proportional to the cost of service provided. To recover the allocated revenue requirements proportionally to the service provided, a unit cost must be derived. Critical to this step is using the unit which relates to the function. The allocation amounts are based on an average of the expenses over the next five years.

Table 6 - Functional Allocation

Projected 5-Year Average

		Offsetting	Allocation				
Functional Allocation	Amount	Revenue	Amount	Customer	Capacity	All Volume	Total
Administration	\$531,066	\$83,997	\$447,069	55%	25%	20%	100%
Source of Supply	\$107,749	\$0	\$107,749		30%	70%	100%
Transmission & Distribution	\$141,933	\$0	\$141,933			100%	100%
Debt Service	\$71,954	\$0	<b>\$71,</b> 954		50%	50%	100%
Capital	\$244,812	\$11,318	\$233,493		60%	40%	100%
Functional Allocation \$	\$1,097,514	\$95,315	\$1,002,199	\$245,888	\$320,165	\$436,146	\$1,002,199
Functional Allocation %				24.53%	31.95%	43.52%	100%
FY 23/24 Revenue Requiremen	nt			\$143,898	\$187,425	\$255,297	\$586,621

# 5.3 Water Rate Derivation

# Bi-Monthly Fixed Service Charges

This charge applies to all active services. It recovers the Capacity functional component revenue requirement on a per MEU basis. The MEU varies by meter size. MEU ratios are based on the AWWA meter equivalent ratio for each meter size.

# Bi-Monthly Water Use Charges

These charges apply to every unit of water sold. It recovers the All Volume functional component revenue requirement on a unit (CCF) basis. Non-residential have a uniform volumetric rate while residential customers have a two-tier rate structure.

The following table shows the water rate allocation units and total revenue requirement by functional component and the derivation of rates. Volumetric rates for each class and tier are calculated based on the actual volumes of average and peak use water billed in the previous year.

# Table 7 - Water Rate Derivation

Allocation Units	All Volume
Unit of Measure	CCF
Total Water Use CCF	210,542
Revenue Requirement	\$255,297
Unit Cost (\$/Unit)	\$1.2

# Bi-Monthly Fixed Charge Calculation

Allocation Units	Customer	Capacity
Unit of Measure	Customers	MEUs
Allocation Units	8,472	9,351
Revenue Requirement	\$143,898	<u>\$187,425</u>
Unit Cost (\$/Unit)	\$16.99	\$20.04

•	Capacity	<b>Bi-Monthly Capacity</b>	Bi-Monthly Capacity	
Meter	Factor**	Component	Component	Bi-Monthly Fixed Charge
3/4"	1.00	\$16.99	\$20.04	\$37.03
1"	1.67	\$16.9 <del>9</del>	\$33.47	\$50.46
2**	5.33	\$16.99	\$106.83	\$123.81

# 5.4 Proposed Water Rates

The following table shows a 5-year schedule of proposed water rates.

Table 8 - Proposed Water Rates

Current and Proposed Water Rates	Existing FY 22-23	Proposed Jan 1, 2024	Proposed	Proposed	•	Proposed Jul 1, 2027
vvater kates	FI & L-L-3	JOH 12, 2027	JUI L, 202°		201 2, 201	
Volumetric Rates (\$/CCF)						
Base Use (0-15 CCF)	\$0.00					
Volumetric (>15 CCF)	\$1.30					
Uniform Rate (All CCF)		\$1.21	\$1.35	\$1.50	\$1.65	\$1.82
Bi-Monthly Fixed Charge						
Meter Size	,					
3/4"	\$42.87	\$37.03	\$41.10	\$45.62	\$50.18	\$55.20
1"	\$58.45	\$50.46	\$56.01	\$62.17	\$68.39	\$75.23
2"	\$144.15	\$123.81	\$137.43	\$152.55	\$167.81	\$184.59

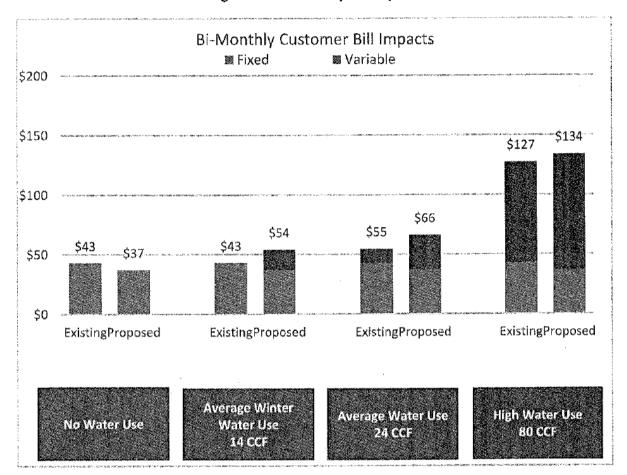
# 5.5 Residential Bill Comparison (¾" Meter)

The following chart compares the water bills for a typical single-family home to those of other regional agencies. Rates can vary widely from agency to agency due to a wide range of factors. The survey shown is for comparative purposes only.

Table 9 - Bill Impacts

Water Rate Scenarios	Existing 2023	Proposed
Bi-Monthly Fixed		
Charge (3/4" meter)	\$42.87	\$37.03
Volumetric Rate	\$1.30	\$1.21
CCF Included in Base	15	0
Bi-Monthly Use (CCF)	Total Bi-Monthly E	Bill
0	\$42.87	\$37.03
14	\$42.87	\$54.00
24	\$54.57	\$66.12
80	\$127.37	\$133.99
	Change in Bi-Mont	thly Bill (\$)
0	\$0.00	-\$5.84
<b>1</b> 4	\$0.00	\$11.13
24	\$0.00	\$11.55
80	\$0.00	\$6.62
	Change in Bi-Mont	thly Bill (%)
0	0.00%	-13.62%
14	0.00%	25.96%
24	0.00%	21.16%
80	0.00%	5.20%

Figure 3 - Bi-Monthly Bill Impacts



# 5.6 Regional Residential Bill Comparison

The following chart compares the water bills for a typical single-family home to those of other regional agencies. Rates can vary widely from agency to agency due to a wide range of factors. The survey shown is for comparative purposes only.

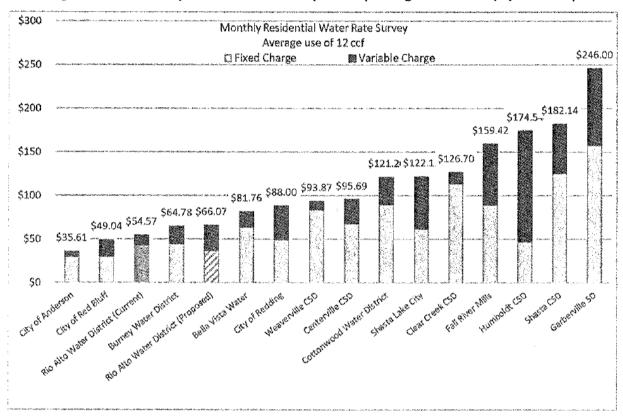


Figure 4 - Bi-Monthly Residential Bill Comparison (Average Use: 12 CCF, 3/4" Meter)

# 6 WASTEWATER FINANCIAL PLAN

# 6.1 Wastewater Financial Overview

BWA conducted an independent evaluation of wastewater enterprise finances and concluded the previous rate increases have put the wastewater enterprise in a sound financial position.

The District relies almost solely on revenues from wastewater rates to fund the costs of providing service. As such, wastewater rates must be set at levels adequate to fund the costs of operating and maintaining the wastewater system, fund necessary capital improvements to keep the wastewater system in good operating condition.

# 6.2 Key Drivers of Rate Increases

The District is facing several manageable financial challenges that will drive the need for rate increases in upcoming years. Key drivers of future rate increases are summarized below.

# Capital Improvement Funding Needs

The District takes a proactive approach to maintaining its wastewater system, which requires ongoing repair and improvement projects. Accounting for construction cost inflation, the District anticipates funding approximately \$1.2 million of capital improvement projects over the next 5 years.

# Ongoing Operating Cost Inflation

The District faces annual cost inflation due to annual increases in a range of expenses including staffing, utilities, insurance, supplies, etc. On top of rate increases needed for capital improvements, annual rate increases are needed to keep revenues aligned with cost inflation and prevent rates from falling behind the cost of providing service. Wastewater cost inflation has historically been higher than the Consumer Price Index (CPI) for consumer goods and services. Historically inflation has typically remained consistently around 3%, but recently inflation has reached forty-year highs with the CPI and ENR CCI exceeding 7% in 2022. It is not expected that inflation will remain at such high levels in the future and for the purposes of this rate study average annual inflation is projected to be 4.5%; in-line with the District's budget inflationary projections.

# Wastewater Reserve Funds

Maintaining a prudent minimal level of fund reserves provides a financial cushion for dealing with unanticipated expenses, revenue shortfalls, and non-catastrophic emergency capital repairs. BWA developed a financial plan designed to maintain prudent reserve levels that are in-line with industry standards.

# Debt Service Coverage

Most municipal debt requires that the issuer generate net operating revenues of 1.25 times the total annual debt service payment or greater. This is referred to as "debt service coverage". To support a strong credit rating and good financial health, the current BWA recommends the District maintain a minimum debt coverage ratio of 1.3 times the annual payment or greater.

# 6.3 Financial Plan Assumptions

The financial projections incorporate the latest information available and a number of reasonable and slightly conservative assumptions for planning purposes. Key assumptions include:

# **Revenue Assumptions**

- Wastewater rate revenues are based on estimated revenues for the current fiscal year.
- Rates proposed to be adopted in December 2023 will be effective on January 1, 2024, with rate adjustments planned to become effective on July 1 of each of the subsequent four fiscal years beginning July 1, 2024.
- To be conservative and ensure revenues will be sufficient, BWA assumed growth to be two new single family connections added per year.
- Interest earnings are projected based on the annual beginning fund balance multiplied by the projected interest rate. The interest rate projections are conservatively based on recent and anticipated interest rates.

# **Expense Assumptions**

- Operating and maintenance costs are primarily based on the 2023/24 budget.
- Operating costs are projected to escalate at 4.5% per year to account for cost inflation.
- Debt service projections are based on outstanding debt schedules and projected issuances of new debt.
- The District is projected to need to finance \$1,000,000 of capital spending. BWA assumed the District will get SRF financing but included a conservative interest rate of 5%.
- Capital improvement costs are based on the most recent engineering cost estimates. Capital costs include a 4.5% annual construction cost inflation factor for the next five years.
- Upon the completion of the Onsite Hypo Generation at WWTP project the District should not need to continue purchasing chlorine. This is reflected in the expenses projections.

# 6.4 Cash Flow Projections

Long-term cash-flow projections were developed based on assumptions and key drivers of future rate increases described above. The projections were used to determine the wastewater utility's annual revenue requirements and project required wastewater rate revenue increases. The long-term cash-flow projections incorporate the latest information available from the District's budget, annual reports, capital spending projections, and metered water demand data, as well as a number of reasonable assumptions developed with input from the District. The overall rate revenue increases shown for each of the following scenarios are designed to fund the District's cost of providing service, maintain roughly balanced budgets, maintain healthy debt service coverage, and maintain prudent reserves. The projections indicate the need for increases for wastewater rate revenues for each of the next five fiscal years. Actual impacts to customers' wastewater bills will vary based on strength category and water use, due to the outcome of the updated cost-of-service analysis.

In future years, the District can re-evaluate its finances and revenue requirements and adjust rates as needed based on updated projections. However, while the District always has the flexibility to implement rate adjustments that are lower than adopted pursuant to Proposition 218, future rates cannot exceed adopted increases without going through the Proposition 218 process again. Rates adopted pursuant to Proposition 218 are essentially future rate caps.

The following figure visually depicts the cash-flow projections with the proposed rate increases for the next five years. Projected expenses are summarized into key categories. The figure also shows the projected fund reserves at the end of each fiscal year.

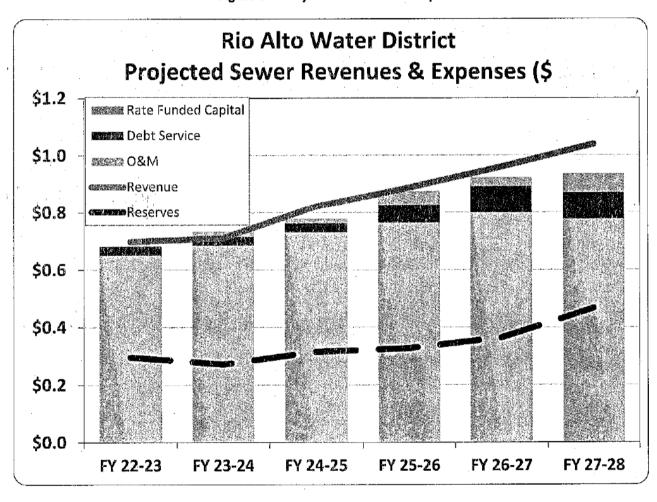


Figure 5 - Projected Cashflow Graph

Detailed, long-term, cash-flow projections for this scenario are shown in the following table.

Table 10 - Detailed Cash Flow Projections

Sewer Fund	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28
Rate Revenue Increase		15.0%	12.5%	10.0%	10.0%	10.0%
Beginning Reserves	\$280,267	\$295,964	\$272,016	\$314,918	\$327,019	\$363,450
Revenues						ynakagyskernyskernskistaskiernkann sistematiks
Rate Revenue	\$504,391	\$503,832	\$579,406	\$651,832	\$717,015	\$788,717
Rate Increase Revenue	0	75,575	72,426	. 65,183	71,702	78,872
Timing Adjustment*		-37,787				
Other Revenue	193,968	169,276	168,858	169,841	170,532	17 <b>1</b> ,483
Total Revenue	\$698,359	\$710,895	\$820,690	\$886,856	\$959,249	\$1,039,072
Expenses	ennako inaukulusinduki idikki idikki idiki idik		Marylan (1986) indecessor a strong and the contact time (i.e.)	sanding our protestions were made	теритурганунаруунарууна (байсай (1884) 1884 (1884) 1884 (1884)	sam voilage production of the same same same same same same same sam
Operating Expenses	\$651,041	\$684,265	\$730,737	\$764,647	\$798,451	\$777,321
Existing Debt Service	31,621	31,377	31,377	31,377	31,377	31,377
New Debt Service	0	0	0	31,000	62,000	62,000
Rate Funded Capital	∈\$0	\$19,200	\$15,675	\$47,730	\$30,990	\$65,589
Total Expenses	\$682,662	\$734,842	\$777,789	\$874,754	\$922,818	\$936,287
Net Revenues	\$15,697	\$23,947	\$42,901	\$12,102	\$36,430	\$102,785
Ending Reserves	\$295,964	\$272,016	\$314,918	\$327,019	\$363,450	\$466,235
Debt Coverage	1.50	0.85	2.87	1.96	1.72	2.80

<sup>\*</sup>Reflects January rate implementation

# 7 WASTEWATER COST OF SERVICE ANALYSIS AND RATE DERIVATION

BWA derived updated wastewater rates that account for both a) the overall rate increases identified in the financial projections, and b) proposed rate structure modifications. The proposed rates are designed to equitably apportion and recover costs from the District's customer base. The basic methodology used to develop new rates includes the following steps:

Figure 6 – WW Cost of Service Analysis and Rate Derivation Process

# Estimate Wastewater Flow & Strength Loadings

The wastewater flow, BOD, and TSS concentrations for each class were multiplied by the billing units and balanced to fall within the range of recent WRF inflows and loadings.

# Allocate Cost to Functional Component

Each cost was allocated to function: fixed capacity (EDU), flow, BOD, and TSS.

# Derive Unit Rates for Wastewater Capacity, Flow & Strength

Divide costs allocated for recovery from fixed capacity, flow and strength by total loadings for each functional component to derive unit rates for wastewater EDU, flow, BOD, and TSS. The unit rate per EDU is paid by all customers as a bi-monthly fixed service charge.

# Allocate Flow & Strength Costs to Customer Classes

Multiply unit rates by the wastewater flow and loadings of each customer class to determine the revenue requirement of each class.

# **Residential Rate Derivation**

Allocate the revenue requirement for cost recovery based on EDU. Divide costs allocated each category by their respective billing units.

## **Non-Residential Rate Derivation**

Divide the revenue requirements for each rate (fixed and volumetric) by the projected billable units (number of customers and water use) for each rate.

# 7.1 Flows and Loadings

The following table estimates the flows and loadings of each customer class based on analysis of recent winter and annual water consumption data and wastewater strength assignments for each customer class.

- Residential flows per unit are based on analysis of historical winter water use data. Residential wastewater strength concentrations are based on estimates previously published by the State Water Resources Control Board (SWRCB). Residential wastewater strength concentrations have increased over the past decade as the volume of wastewater flow has decreased due to transition to low-flow toilets, waterefficient appliances, and other water conservation and efficiency measures.
- Commercial estimated wastewater flows are adjusted to account for a 20% RTS factor. The RTS factor was based on an analysis of winter and summer water use.

The resulting flow and strength projections for each class are shown in the following table and provide the basis for allocating costs and deriving equitable wastewater rates for each customer class.

Table 11 - Wastewater Flows and Loading

Wastewater Flows and	# of Sewer	# of Sewer	Est. Mo Flow	Projected	Flow	Projected Flow	Strength	(mg/l) <sup>9</sup>	Loadin	gs (lbs)
Loadings	Customers	EDUs <sup>1</sup>	CCF Per EDU <sup>2</sup>	Water Use CCF <sup>3</sup>	Factor <sup>4</sup>	CCF	BOD <sup>7</sup>	TSS <sup>8</sup>	800	TSS
Residential	911	927	7.00	N/A		77,826	220	220	106,906	106,906
Commercial	2	9	35.00	3,782	20%	<u>756</u>	200	200	<u>944</u>	<u>944</u>
Total						78,582			107,850	107,850

<sup>&</sup>lt;sup>1</sup> "EDU" stands for equivalent dwelling unit

# 7.2 Functional Allocation

The next step in the cost-of-service analysis is to assign wastewater system costs in each allocation category for revenue recovery via the functional cost components of flow, BOD (biochemical oxygen demand), and TSS (total suspended solids). While there is no single correct approach for cost allocation, BWA believes that costs should be allocated within a reasonable range that reflects both a) underlying cost causation, to the extent such causation can reasonably be determined or estimated, and b) the policy preferences of the agency in cases where a range of reasonable approaches can be justified. This process is intended to proportionately allocate costs to each functional component to determine the revenue requirement for each component. The allocations to each functional component were based on input from District staff.

<sup>&</sup>lt;sup>2</sup> Flow estimate based on average winter use

<sup>&</sup>lt;sup>3</sup> "CCF" stands for hundred cubic feet

<sup>&</sup>lt;sup>4</sup> Flow factor based on estimated flow returning to sewer

<sup>&</sup>lt;sup>5</sup> "MG" stands for 1,000 gallons

<sup>&</sup>lt;sup>6</sup> "GPD" stands for gallons per day

<sup>&</sup>lt;sup>7</sup> "BOD" stands for blochemical oxygen demand

<sup>&</sup>lt;sup>8</sup> "TSS" stands for total suspended solids

<sup>9</sup> State Water Resource Control Board (SWRCB) Guidelines for Wastewater Agencies

The functional cost components are described as follows:

- Flow reflects costs associated with the volume of wastewater collected and treated.
- BOD reflects costs associated with treating BOD.
- TSS reflects costs associated with treating TSS.

The following table shows a breakdown of the wastewater utility's expenses, how they are allocated and calculates the unit rates per unit of flow, BOD and TSS. The wastewater rate revenue requirements from the prior table for each functional component are divided by the units related to each function.

# Table 12 - Functional Cost Allocation

Projected 5-Year Average

Offsetting Allocation

Functional Allocation	Amount	Revenue	Amount	Flow	BOD	TSS	Total
Administration	\$468,541	\$13,200	\$455,341				0%
Collection System	\$119,920	\$0	\$119,920	100%			100%
Treatment	\$191,330	\$0	\$191,330	20%	40%	40%	100%
Debt Service	\$62,377	\$0	\$62,377	20%	40%	40%	100%
Capital	\$35,837	\$9,984	\$25,853	33%	33%	33%	100%
Functional Allocation \$	\$878,005	\$23,184	\$854,821	\$179,279	\$110,101	\$110,101	\$399,480
Functional Allocation %				44.88%	27.56%	27.56%	100%
FY 22/23 Revenue Require	ment		****	\$226,120	\$138,856	\$138,856	\$503,832
LPSS Allocation				-\$2,880			
Final Revenue Requiremen	nt ·			\$223,240	\$138,856	\$138,856	\$503,832

#### Flow and Strength Revenue Requirement by Class 7.3

Revenue requirements for each customer class are calculated by multiplying the unit rates for flow, BOD and TSS from the volume of wastewater flow and loadings associated with each class.

Table 13 - Flow and Strength Revenue Requirement by Class

Allocation Units	Flow	BOD	TSS	
Unit of Measure	#	EDU	CCF	
Allocation Units	78,582	107,850	107,850	
Revenue Requirement	\$223,240	\$138,856	\$138,856	
Unit Cost (\$/Unit)	\$2.84	\$1.29	\$1.29	
Revenue Requirement	Flow	BOD	TSS	Total
Units				
Residential	77,826	106,906	106,906	
Commercial	756	944	944	
Revenue Requirement				
Residential	\$221,091	\$137,640	\$137,640	\$496,371
Commercia!	\$2,149	\$1,216	\$1,216	\$4,581

# 7.4 Domestic Rate Derivation

Residential rates are derived by dividing the total amount of costs designated residential rate recovery by the total number of residential fixed billing units.

Table 14 - Residential Rate Derivation

	Sewer	Low
Unit Cost Calculation	System	Pressure
Total EDUs	926.50	22.00
Revenue Requirement	\$496,370.98	\$3,151.22
\$ per EDU	\$535.75	\$143.24
Bi-Monthly \$ per EDU	\$89.29	\$23.87

Bi-Monthly Residential Rate		Sewer	Low	At FY 22-23	At FY 23-24
Derivation	EDUs	System	Pressure	Revenue	Revenue
Single Family Resid.	1.00	\$89.29	#03 #e/n (1994) #00 e/e/e/e/e/e/e/e	\$89.29	\$102.68
1/2 single Fam Resid.	0.50	\$44.65		\$44.65	\$51.34
TriPlex sewer	3.00	\$267.89		\$267.89	\$308.08
Duplex Sewer	2.00	\$178.59		\$178.59	\$205.38
Sewer Extention	1.00	\$89.29		\$89.29	\$102.68
Low Pressure	1.00	\$89.29	\$23.87	\$113.16	\$130.14
Low Pressure Duplex	2.00	\$178.58	\$47.75	\$226.33	\$260.28

# 7.5 Non-Residential Rate Derivation

The following table calculates rates for the commercial customer class by dividing the revenue requirements for fixed and variable rates by the billable units applicable to each rate.

Table 15 - Non-Residential Rate Derivation

Commercial Rate Derivation	Fixed	Volumetric
FY 22/23 Revenue Requirement	\$2,431.98	\$2,148.57
Units	2.00	3,781.58
\$per Unit	\$1,215.99	\$0.57
Bi-Monthly \$ per Customer	\$202.66	
Bi-Monthly FY 23/24 Rates	\$233.06	\$0.65

# 7.6 Proposed Wastewater Rates

The following table shows a 5-year schedule of proposed wastewater rates. The rates are designed to recover the District's costs of providing wastewater service while achieving roughly balanced budgets in upcoming years.

Table 16 - Proposed	<b>Wastewater Rates</b>
---------------------	-------------------------

Existing and Proposed	Existing	Proposed	Proposed	Proposed	Proposed	Proposed
Sewer Rates	FY 22-23	Jan 1, 2024	Jul 1, 2024	Jul 1, 2025	Jul 1, 2026	Jul 1, 2027
Bi-Monthly Fixed Charges						
Single Family Resid.	\$89.18	\$102.68	\$115.52	\$127.07	\$139.78	\$153.76
1/2 single Fam Resid.	\$44.59	\$51.34	\$57.76	\$63.54	\$69.89	\$76.88
TriPlex sewer	\$267.56	\$308.08	\$346.59	\$381.25	\$419.38	\$461.32
Duplex Sewer	\$178.37	\$205.38	\$231.05	\$254.16	\$279.58	\$307.54
Sewer Extention	\$105.26	\$102.68	\$115.52	\$127.07	\$139.78	\$153.76
Low Pressure	\$105.26	\$130.14	\$146.41	\$161.05	\$177.16	\$194.88
Low Pressure Duplex	\$210.52	\$260.28	\$292.82	\$322.10	\$354.31	\$389.74
Commercial	\$202.46	\$233.06	\$262.19	\$288.41	\$317.25	\$348.98
Volumetric Charges						
Commercial	\$0.55	\$0.65	\$0.73	\$0.80	\$0.88	\$0.97

# 7.7 Regional Wastewater Rate Survey

The following charts compare the wastewater and wastewater bills for a typical single-family home to those of other regional agencies.

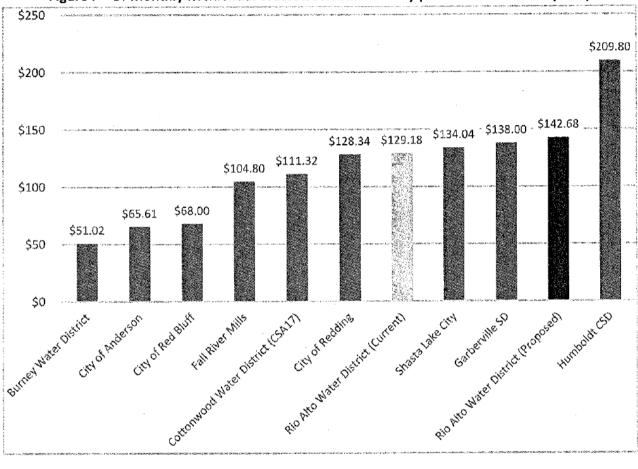


Figure 7 - Bi-Monthly Residential Wastewater Rate Survey (7 CCF winter consumption)

# **APPENDIX A**

**Water Rate Study Tables** 

# Rio Alto Water District Draft Water Rate Study Tables



November 21, 2023

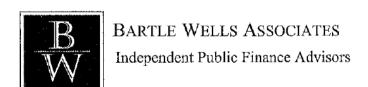


Table 1 Rio Alto WD Water Rate Study Projected Operating Expenses

General Inflation Educing Regulatory Officer Systems Operator II Source of Supply Systems Operator III Source of Supply Part Time Employee Source of Supply Well #4 Utility PG&E Source of Supply Well #4 Utility PG&E Source of Supply Systems Operator III Source of Supply Avel #4 Utility PG&E Source of Supply Source of Supply Avel #4 Utility PG&E Source of Supply	no confidentia de la confidentia de la confidencia del confidencia de la confidencia	Budgeted	projected	escententes estados Projected	encepage encountries de la company de la La company de la	Drniottori	Projected	Projected	Projected	Projected	Projected
General Inflation factor Regulatory Officer Systems Operator III Systems Operator III Part Time Employee Well #4 Utility PGRE Well #4 Utility PGRE		ACCOUNT OF THE PROPERTY OF THE			Projected	Trightness	-			このないないないないのであるとのないないないないないないない	日の大田の日の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日
Regulatory Officer Systems Operator II Systems Operator III Part Time Employee Well #4 Utility PGRE Wall #5 Utility PGRE			4.50	6 Z 2	8.4	4.39.	4.5%	45%	1.2	200	45%
Systems Operator II Systems Operator III Part Time Employee Well #4 Utflity PG&E WAll #5 Utflity PG&E	Source of Supply		\$21,568	\$22,538	\$23,553	\$24,612	\$25,720	\$26,877	\$28,087	\$29,351	\$30,672
Systems Operator III Part Time Employee Well #4 Utitity PG&E Woll #5 II Tilling PG&E	Source of Supply	32,469	\$33,930	\$35,457	\$37,053	\$38,720	\$40,462	\$42,283	\$44,186	\$46,174	\$48,252
Part Time Employee Well #4 Utility PG&E Well #5 I (Pility PG&E	Source of Supply	20,950	\$21,893	\$22,878	\$23,907	\$24,983	\$26,108	\$27,282	\$28,510	\$29,793	\$31,134
Well #4 Utility PG&E Well #5 Utility PG&E	Source of Supply	2,700	\$2,822	\$2,948	\$3,081	\$3,220	\$3,365	\$3,516	\$3,674	\$3,840	\$4,012
Well #5 Unithy PG&F	Source of Supply	9,200	\$9,614	\$10,047	\$10,499	\$10,971	\$11,465	\$11,981	\$12,520	\$13,083	\$13,672
	Source of Supply	1,000	\$1,045	\$1,092	\$1,141	\$1,193	\$1,246	\$1,302	51,361	\$1,422	\$1,486
Well #3 Utility PG&E	Source of Supply	650	\$679	\$710	\$742	\$77\$	\$810	\$846	\$885	\$924	\$956
slooT	Source of Supply	150	\$157	\$164	\$171	\$179	\$187	\$195	\$204	\$213	\$223
General Supplies	Source of Supply	200	\$209	\$218	\$228	\$239	\$249	\$260	\$272	\$284	\$297
Well #6 Utility PG&E	Source of Supply	2,000	\$2,090	\$2,184	\$2,282	\$2,385	\$2,492	\$2,605	\$2,722	\$2,844	\$2,972
Contracted Services	Source of Supply	200	\$523	\$546	\$571	\$596	\$623	\$651	\$680	\$711	\$743
Auto Fuel	Source of Supply	2,150	\$2,247	\$2,348	\$2,454	\$2,564	\$2,679	\$2,800	\$2,926	\$3,058	\$3,195
Auto Maintenance	Source of Supply	800	\$836	\$874	\$133	\$954	\$997	\$1,042	\$1,089	\$1,138	\$1,189
Auto Repair	Source of Supply	350	\$366	\$382	\$399	\$417	\$436	\$456	\$476	\$498	\$520
Well #3 Repair	Source of Supply	6	8	\$	SS	S\$	\$0	8	90	\$0	\$0
Well #4 Repair	Source of Supply	25	\$52	\$55	\$57	99\$	\$62	\$65	895	\$71	\$74
Well #4 Maintenance	Source of Supply	200	\$209	\$218	\$228	\$239	\$249	\$250	\$272	\$284	\$297
Well #5 Maintenance	Source of Supply	<b>8</b> 8	\$209	\$218	\$228	\$239	\$249	\$260	\$272	\$284	\$297
Well #6 Repair	Source of Supply	<b>.</b>	\$52	\$22	\$57	09\$	\$62	\$65	89\$	\$71	\$74
Well #5 Repair	Source of Supply	25	\$55	\$55	\$57	\$60	\$62	\$65	\$68	\$71	\$74
Well #6 Maintenance	Source of Supply	Z00Z	\$209	\$218	\$228	\$235	\$249	\$260	\$272	\$284	\$297
Telemetry System	Source of Supply	750	\$784	\$819	\$856	\$894	\$935	\$977	\$1,021	\$1,067	\$1,115
Drinking Water Samples	Source of Supply	3,220	\$3,365	\$3,516	\$3,675	\$3,840	\$4,013	\$4,193	\$4,382	\$4,579	\$4,785
Regulatory Officer	Transmission & Distribution	20,638	\$21,567	\$22,537	\$23,551	\$24,611	\$25,719	\$26,876	\$28,085	\$29,349	\$30,670
Systems Operator II	Transmission & Distribution	39,263	\$41,030	\$42,876	\$44,806	\$46,822	\$48,929	\$51,131	\$53,432	\$55,836	\$58,349
Systems Operator III	Transmission & Distribution	25,690	\$26,846	\$28,054	\$29,317	\$30,636	\$32,014	\$33,455	\$34,961	\$36,534	\$38,178
Auto Fuel	Transmission & Distribution	2,050	\$2,142	\$2,239	\$2,339	\$2,445	\$2,555	\$2,670	\$2,790	\$2,915	\$3,046
Auto Maintenance	Transmission & Distribution	800	\$835	\$874	\$913.	\$954	\$997	\$1,042	\$1,089	\$1,138	\$1,189
Auto Repair	Transmission & Distribution	350	\$366	\$382	\$399	\$417	\$436	\$456	\$476	\$498	\$520
Part Time Employee	Transmission & Distribution	2,700	\$2,822	\$2,948	\$3,081	\$3,220	\$3,365	\$3,516	\$3,674	\$3,840	\$4,012
Booster Station Utility	Transmission & Distribution	420	\$439	\$459	\$479	\$501	\$523	\$547	\$572	\$597	\$624
Meters/Backflows	Transmission & Distribution	7,000	\$7,315	\$7,644	\$7,988	\$8,348	\$8,723	\$9,116	\$9,526	\$36,6\$	\$10,403
Tools	Transmission & Distribution	5,000	\$5,225	\$5,460	\$5,705	\$5,963	\$6,231	\$6,511	\$6,804	\$7,111	\$7,430
General Supplies	Transmission & Distribution	3,000	\$1,045	\$1,092	\$1,141	\$1,193	\$1,246	\$1,302	\$1,361	\$1,422	\$1,486
Contracted Services	Transmission & Distribution	560	\$585	\$612	\$639	\$668	\$69\$	\$729	\$762	\$796	\$832
Equipment Maintenance/Repair	Transmission & Distribution	1,000	\$1,045	\$1,092	\$1,141	\$1,193	\$1,246	\$1,302	\$1,361	\$1,422	\$1,485
Booster Station Maintenance/Repair	Trapsmission & Distribution	200	\$523	\$546	\$571	\$596	\$623	\$651	\$680	\$711	\$743
Tanks #1,2,3 Maintenance/Repair	Transmission & Distribution	2005	\$523	\$546	\$571	\$596	\$623	\$651	\$680	\$711	\$743
Line Maintenance/Repair	Transmission & Distribution	20,000	\$20,900	\$21,841	\$22,823	\$23,850	\$24,924	\$26,045	\$27,217	\$28,442	\$29,722
Valve Maintenance/Repair	Transmission & Distribution	1,000	\$1,045	\$1,092	\$1,141	\$1,193	\$1,246	\$1,302	\$1,361	\$1,422	\$1,486
Hydrant Maintenance/Repair	Transmission & Distribution	203	\$523	\$546	\$571	\$596	\$623	\$651	\$680	\$711	\$743
Telemetry System	Transmission & Distribution	750	\$784	\$819	\$856	\$894	\$935	446\$	\$1,021	\$1,067	\$1,115
Hydrant Replacement Fund	Transmission & Distribution		S.	\$	\$0	8	\$0	\$0	84	\$0	\$0
General Manager	Administration	59,716	\$62,403	\$65,211	\$68,145	\$71,212	\$74,417	\$77,766	\$81,265	\$84,922	\$88,744

Table 1 Rio Alto WD Water Rate Study Projected Operating Expenses

Expenses <sup>1</sup>		FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28	FY 28-29	FY 29-30	FY 30-31	FY 31-32	FY 32-33
-priorite de la		Budgeted	Projected	monacione consensoro Projected	reconstruction Projected	Projected	Projected	Projected	Projected	Projected	Projected
General (milation Factor			9.5.6	4.5	*25	4.595	7.59	459	4.5	7.58	15%
Regulatory Officer	Administration	9,326	\$9,746	\$10,184	\$10,643	\$11,121	\$11,622	\$12,145	\$12,691	\$13,263	\$13,859
Systems Operator II	Administration		\$1,298	\$1,356	\$1,417	\$1,481	\$1,548	\$1,617	\$1,690	\$1,766	\$1,846
Systems Operator III	Administration	790	\$855	\$863	\$902	\$942	\$984	\$1,029	\$1,075	\$1,123	\$1,174
Secretary	Administration	35,840	\$37,453	\$39,138	\$40,899	\$42,740	\$44,663	\$46,673	\$48,773	\$20,968	\$53,262
Боохкеерег	Administration	33,903	\$35,429	\$37,023	\$38,689	\$40,430	\$42,249	\$44,151	\$46,137	\$48,213	\$50,383
Part Time Employee	Administration										
PERS Employer Unfunded Liability	Administration	47,585	\$49,831	\$52,073	\$54,417	\$56,865	\$59,424	\$62,098	\$64,893	\$67,813	\$70,864
Workers Compensation Insurance	Administration	4,425	\$4,624	\$4,832	\$5,050	\$5,277	\$5,514	\$5,763	\$6,022	\$6,293	\$6,576
HCA	Administration	23,000	\$24,035	\$25,117	\$26,247	\$27,428	\$28,662	\$29,952	\$31,300	\$32,708	\$34,180
PERS Retirement	Administration	27,369	\$28,601	\$29,888	\$31,233	\$32,638	\$34,107	\$35,642	\$37,245	\$38,921	\$40,673
Health Insurance ACWA	Administration	33,268	\$39,990	\$41,790	\$43,670	\$45,635	\$47,689	\$49,835	\$52,077	\$54,421	\$56,870
Ins	Administration	1,840	\$1,923	\$2,009	\$2,100	\$2,194	\$2,293	\$2,396	\$2,504	\$2,617	\$2,734
Retiree Health Benefits	Administration	13,974	\$14,603	\$15,260	\$15,947	\$15,664	\$17,414	\$18,198	\$19,61\$	\$19,872	\$20,767
PEPRA Employer Contributions	Administration	11,155	\$11,657	\$12,182	\$12,730	\$13,303	\$13,901	\$14,527	\$15,180	\$15,864	\$16,577
PEPRA Employer Unfunded Liability	Administration										
Denta]/Vision Insurance	Administration	3,502	\$3,660	\$3,824	\$3,996	\$4,176	\$4,364	\$4,561	\$4,766	\$4,980	\$5,204
Life Insurance	Administration	408	\$840	\$28\$	\$917	656\$	\$1,002	\$1,047	\$1,094	\$1,143	\$1,195
Supplies	Administration	4,000	\$4,180	\$4,368	\$4,565	\$4,770	\$4,985	\$5,209	\$5,443	\$5,688	\$5,944
Postage	Administration	3,000	\$5,225	\$5,460	\$5,706	\$5,963	\$6,231	\$6,511	\$6,804	\$7,111	\$7,430
Printing	Administration	1,200	\$1,254	\$1,310	\$1,369	\$1,431	\$1,495	\$1,563	\$1,633	\$1,707	\$1,783
Employee Travel/Expenses	Administration	2,500	\$2,613	\$2,730	\$2,853	\$2,981	\$3,115	\$3,256	\$3,402	\$3,555	\$3,715
Employee Meetings/Conferences	Administration	1,500	\$1,568	\$1,638	\$1,712	\$1,789	\$1,869	\$1,953	\$2,041	\$2,133	\$2,229
Education	Administration	300	\$314	\$328	\$342	\$328	\$374	\$391	\$408	\$427	\$446
Certification Renewal	Administration	200	\$209	\$218	\$228	\$239	\$249	\$260	\$272	\$284	\$297
Public Relations	Administration	1,000	\$1,045	\$1,092	\$1,141	\$1,193	\$1,246	\$1,302	\$1,361	\$1,422	\$1,486
District Uniforms	Administration	056	\$993	\$1,037	\$1,084	\$1,133	\$1,184	\$1,237	\$1,293	\$1,351	\$1,412
Alarm System Monitoring	Administration	204									
Membership/Subscriptions	Administration	1,200	\$1,254	\$1,310	\$1,369	\$1,431	\$1,495	\$1,563	\$1,633	\$1,707	\$1,783
Banking/Court Costs	Administration	3,000	\$3,135	\$3,276	\$3,423	\$3,578	\$3,739	53,907	\$4,083	\$4,266	\$4,458
Website & Advertising	Administration	275	\$287	\$300	\$314	\$328	\$343	\$328	\$374	\$391	\$409
Insurance	Administration	28,710	\$30,002	\$31,352	\$32,763	\$34,237	\$35,778	\$37,388	\$39,070	\$40,829	\$42,666
Cell Phone Allowance	Administration	458	\$479	\$500	\$523	\$546	\$571	\$596	\$623	\$651	\$681
Propane - Fat Cat	Administration	300	\$314	\$328	\$342	\$358	\$374	\$391	\$408	\$427	\$446
Equipment Lease	Administration	5,304	\$5,543	\$5,792	\$6,053	\$6,325	\$6,610	\$6,907	\$7,218	\$7,543	\$7,882
Office Equipment Expense	Administration	006	\$941	\$983	\$1,027	\$1,073	\$1,122	\$1,172	\$1,225	\$1,280	\$1,337
Office Equipment Maintenance	Administration	180	\$188	\$197	\$202	\$215	\$224	\$234	\$245	\$256	\$267
Office Building Maintenance	Administration	096	\$1,003	\$1,048	\$1,096	\$1,145	\$1,196	\$1,250	\$1,305	\$1,365	\$1,427
Contracted Services	Administration	3,770	\$3,940	\$4,117	\$4,302	\$4,496	\$4,698	\$4,910	\$5,130	\$5,361	\$5,603
Engineering Services	Administration	0001	\$1,045	\$1,092	\$1,141	\$1,193	\$1,246	\$1,302	\$1,361	\$1,422	\$1,486
Lot Selling Expense	Administration	8	\$105	\$109	\$114	\$119	\$125	\$130	\$136	\$142	\$149
Safety Supplies	Administration	006	\$941	\$983	\$1,027	\$1,073	\$1,122	\$1,172	\$1,225	\$1,280	\$1,337
Office Utility-PG&E	Administration									1	
Telephone	Administration	1,714	\$1,791	\$1,872	\$1,956	\$2,044	\$2,136	\$2,232	\$2,333	\$2,437	\$2,547
Service Fee - State	Administration	13,725	\$14,343	\$14,988	\$15,663	\$16,367	\$17,104	\$17,874	\$18,678	\$19,518	\$20,397

Table 1 Rio Alto WD Water Rate Study Projected Operating Expenses

Expenses		FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28	FY 28-29	FY 29-30	FY 30-31	FY 31-32	FY 32-33
THE PROPERTY OF THE PROPERTY AND A SECOND PROPERTY OF THE PROP	one remoral particular sections and the sections of the section of	Budgeted	Projected								
General Inflation Factor			365.77	4.88	4.5	455	44	1.5%	15%	45.6	9.5
Service Fee - Federal SSA	Administration	150	\$157	\$164	\$171	\$179	\$187	\$195	\$204	\$213	\$223
Service Fee - County	Administration	4,900	\$5,121	\$5,351	\$5,592	\$5,843	\$6,106	\$6,381	\$6,568	\$5,968	\$7,282
Auditor	Administration	8,400	\$8,778	\$9,173	\$9,586	\$10,017	\$10,468	\$10,939	\$11,431	\$11,946	\$12,483
Legal Counsel	Administration	2,400	\$2,508	\$2,621	\$2,739	\$2,862	\$2,991	\$3,125	\$3,266	\$3,413	\$3,567
Board Meeting Supplies	Administration	250	\$261	\$273	\$285	\$298	\$312	\$326	\$340	\$356	\$372
Director Fees	Administration	4,040	\$4,222	\$4,412	\$4,610	\$4,818	\$5,035	\$5,261	\$5,498	\$5,745	\$6,004
Director Travel/Conferences	Administration	7,260	\$7,587	\$7,928	\$8,285	\$8,658	\$9,047	\$9,454	\$9,880	\$10,324	\$10,789
Director Election (non-election yr.)	Administration	009		\$655		\$716		\$781		\$823	
Director Election (election yr.)	Administration		\$2,613		\$2,853		\$3,115		\$3,402		\$3,715
GASB OPEB Evaluations (total eval)	Administration.	1,500		\$1,638		\$1,789		\$1,953		\$2,133	
GASB OPEB Evaluations (disciosure)	Administration		\$314		\$342		\$374		\$408		\$446
Computer Updates & Subscriptions	Administration	6,220	\$6,500	\$6,792	\$7,098	\$7,417	\$7,751	\$8,100	\$8,465	\$8,845	\$9,244
Water Rate Study	Administration	21,000					\$26,170				
OPEB Contributions (CERBT Trust)	Administration										
Asset Evaluation Consultant	Administration	15,000					\$18,693				
OPEB Liability	Administration		\$15,000	\$15,675	\$16,380	\$17,117	\$17,888	\$18,693	\$19,534	\$20,413	\$21,332
Computer Upgrades	Administration		\$7,000	\$7,315	\$7,644	\$7,988	\$8,348	\$8,723	\$9,116	\$9,526	\$9,955
Total Operating Expenses		\$692,408	\$708,151	\$739,254	\$773,319	\$807,283	\$889,346	\$881,574	\$922,197	\$962,700	\$1,007,062

<sup>&</sup>lt;sup>1</sup> Based on District's FY 23-24 budget with minor modifications reflecting the updated capital spending projections

Table 2 Rio Alto WD Water Rate Study Projected Revenues

Revenue Category FY 22-23	Category	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28	FY 28-29	FY 29-30	FY 30-31	FY 31-32	FY 32-33
		Actual	Buogeted	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Rate Revenue Assumptions: Customer Growth				6.14	0.14%	11.14	471.13	0.12136	0449	0:14%	5.014%	47
Rate Revenue												
Rate Revenue Before Increase		\$528,471	\$528,487	\$587,442	\$652,973	\$725,815	\$799,515	\$880,697	\$970,123	\$1,058,530	\$1,155,736	\$1,238,369
Revenue from Rate Increase <sup>1,2</sup>			529,067	\$64,619	\$71,827	\$72,582	\$79,951	\$88,070	\$97,012	\$85,490	\$80,902	\$61,918
Total Rate Revenue		\$528,471	\$557,554	\$652,061	\$724,801	\$798,397	\$879,466	\$968,767	\$1,067,136	\$1,154,120	\$1,236,637	\$1,300,287
Other Revenue												
Avail Water Revenue	Administration	\$54,975	\$53,163	\$53,163	\$53,163	\$53,163	\$53,163	\$53,163	\$53,163	\$53,163	\$53,163	\$53,163
Hydrant Revenue	Administration	\$20,228	\$19,728	\$19,728	\$19,728	\$19,728	\$19,728	\$19,728	\$19,728	\$19,728	\$19,728	\$19,728
Avail Hydrant Revenue	Administration	\$11,514	\$11,106	\$11,106	\$11,106	\$11,106	\$11,106	\$11,106	\$11,106	\$11,106	\$11,106	\$11,106
Connections Water Revenue	Capital	\$23,304	\$18,864	\$9,432	\$9,432	\$9,432	\$9,432	\$9,432	\$9,432	\$9,432	\$9,432	\$9,432
Interest Revenue RAWD	As All Other	\$42,574	\$11,752	\$8,730	\$8,326	\$7,966	\$8,654	\$8,741	\$7,227	\$6,567	\$6,163	\$5,956
Cell Tower Lease Revenue	As All Other	\$10,200	\$13,950	\$18,450	\$19,004	\$19,574	\$20,161	\$20,766	\$21,389	\$22,030	\$22,691	\$23,372
Tax Revenue RAWD	As All Other	\$174,309	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
County Interest	As All Other	\$2,897	\$2,600	\$2,600	\$2,600	\$2,600	\$2,600	\$2,600	\$2,600	\$2,600	\$2,600	\$2,600
County Penalty	As All Other	5714	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Administrative Revenue	Other Revenues	\$26,165	\$15,300	\$15,300	\$15,300	\$15,300	\$15,300	\$15,300	\$15,300	\$15,300	\$15,300	\$15,300
Capacity Expansion Interest RAWD	As All Other	512										
Capacity expansion revenue KAWD	As All Other	A TOTAL										
Sewer Liability to Water Enterprise	As All Other			\$23,592	\$23,592	\$23,592	\$23,592	\$23,592	\$23,592	\$23,592	\$23,592	\$23,592
Total Other Revenue		\$358,441	\$297,463	\$313,101	\$313,251	\$313,460	\$314,736	\$315,428	\$314,536	\$314,518	\$314,775	\$315,259
Total Revenue		\$896,912	\$855,017	\$965,161	\$1,038,051	\$1,111,857	\$1,194,202	\$1,284,194	\$1,381,672	\$1,468,638	\$1,551,413	\$1,615,546

<sup>3</sup>Additional revenue based on recommended increase

Adjusted if rates adopted in the middle of fiscal year

Table 3 Rio Alto WD Water Rate Study Capital Improvement Costs

Project Description	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28	FY 28-29	FY 29-30	FY 30-31	FY 31-32	FY 32-33
осностинення в поставления предержения поставления поставления поставления поставления поставления поставления В поставления поста	rojecte	a Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
CIP (Current Dollars)								CENTER COMPANY OF THE PROPERTY	у при	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE OW	SOCIEDADA CONTRACTOR C
Tanks (from Superior Tank):		AND THE PERSONNELS OF THE PERS						4	4	100	200
Tanks 1A & 2A		\$123,722	\$123,722	\$123,722	\$36,336	\$36,336	\$36,336	536,335	536,336	536,336	\$56,355
Tank 1B						\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$18,500
Tank 2B							\$125,000	\$125,000	\$125,000	\$125,000	\$125,000
Wells (Pump, Motor & Controls):											
Well 5 - 150 HP Submersible					\$207,287						
Well 6 - 175 HP Submersible					\$225,802						
Other:											
Roof	\$21,000										
AC	\$7,800										
Repair and Abandon 12" Line	\$30,000	\$120,000							,		
Fire Hydrants - 2 per year		\$22,000	\$22,000	\$22,000	\$22,000	\$22,000	\$22,000	\$22,000	\$22,000	\$22,000	\$22,000
Vehicles			\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Line Replacement			\$50,000	\$75,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
Total CIP (Current Dollars)	\$58,800	\$265,722	\$215,722	\$240,722	\$611,425	\$228,336	\$353,336	\$353,336	\$353,336	\$353,336	\$321,836
CIP (Inflated Dollars)										NEWSCHOOL STATE OF THE STATE OF	distribution in the second
Total CIP (inflated Dollars)	\$58,800	\$265,722	\$225,429	\$262,874	\$697,737	\$272,295	\$440,321	\$460,135	\$480,841	\$502,479	\$478,279
Annual Inflation Rate	:		4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%

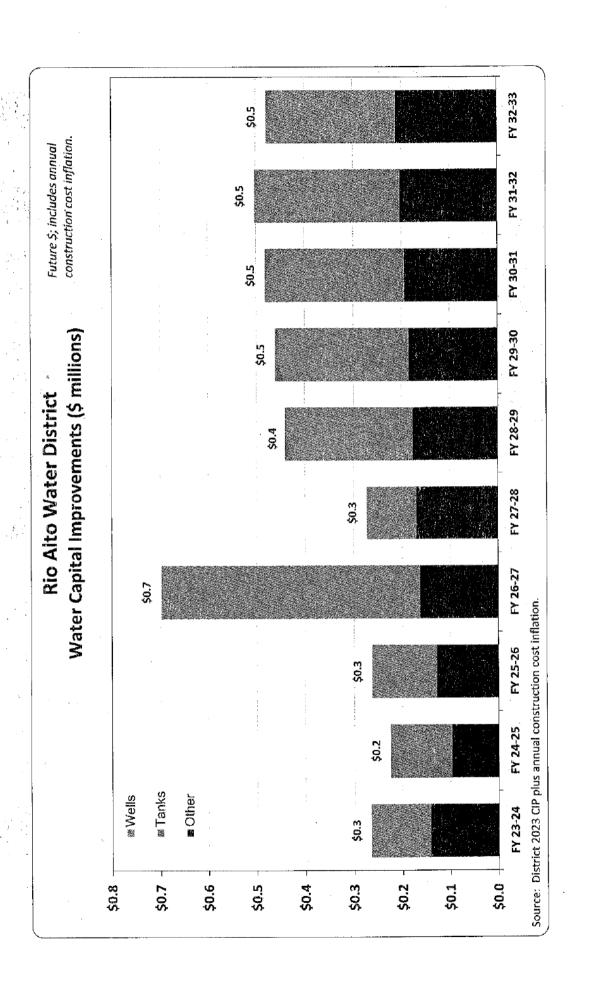


Table 4 Rio Alto WD Water Rate Study Debt

Debt	FY 22-23	3 FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28	FY 28-29	FY 29-30	FY 30-31	FY 31-32	FY 32-33
извернительного предостивного предостивностивностивностивностивностивностивностивностивностивностивностивности Астиа	Actual	ıl Budgeted	Projected								
Existing Debt											
CEC Loan Bayment Well #5	\$25.378	8 \$25.378	\$25,378	\$25,378	\$25,378	\$25,378	\$25,378	\$25,378	\$25,378	\$25,378	\$25,378
CEC Loan Payment Well #6	\$34.469		\$34,469	\$34,469	\$34,469	\$34,469	\$34,469	\$34,469	\$34,469	\$34,469	\$34,469
CEC Loan Interest Office	\$10,461		\$10,461	\$10,461	\$10,461	\$10,461	\$10,461	\$10,461	\$10,461	\$10,461	\$10,461
CEC Loan Payments Office	\$1,646		\$1,646	\$1,646	\$1,646	\$1,646	\$1,646	\$1,646	\$1,646	\$1,646	\$1,645
Total Current Debt Service	\$71,954	\$71,954	\$71,954	\$71,954	\$71,954	\$71,954	\$71,954	\$71,954	\$71,954	\$71,954	\$71,954
Proposed Borrowing					i						
Net Proceeds Needed						\$500,000					
Repayment Term (yrs)						30					
Interest Rate						5.0%					
Month of Issue											
Issuance Costs (% of Net Proceeds)	oceeds)										
Issuance Cost						\$30,000					
Debt Service Reserve											
Total Debt Issue Size						\$530,000					
Prorated Debt Service Payment - Current Yr. Only	nt - Current Yr. (	July				\$34,000					
Annual Debt Service Payment (rounded)	t (rounded)					\$34,000					
Total Proposed Annual Water Del	Del \$0	0\$ 0	\$0	0\$	\$0	\$34,000	\$34,000	\$34,000	\$34,000	\$34,000	\$34,000
									,	5 7	

Table 5 Rio Alto WD Water Rate Study Cash Flow Projections

Water Fund FY 22-23 FY 23-24	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28	FY 28-29	FY 29-30	FY 30-31	FY 31-32	FY 32-33
Rate Revenue Increase		11.0%	11.0%	11.0%	10.0%	10.0%	10.0%	10.0%	8.0%	7.0%	5.0%
Beginning Reserves	\$891,721	\$891,721 \$1,048,042	\$872,974	\$832,601	\$796,570	\$865,417	\$874,087	\$722,660	\$656,669	\$616,314	\$596,593
Revenues						**		neconoxionar and consistency and consistency	AND THE PERSON OF THE PERSON O		pendycatalysels/3048tias/5048000
Necessary Company of the Revenue of	\$528,471	\$528,487	\$587,442	\$652,973	\$725,815	\$799,515	\$880,697	\$970,123	\$1,068,630	\$1,155,736	\$1,238,369
Rate Increase Revenue	0	58,134	64,619	71,827	72,582	79,951.	88,070	97,012	85,490	80,902	61,918
Timing Adjustment*		-29,067									
Other Revenue	368,441	297,463	313,101	313,251	313,460	314,736	315,428	314,536	314,518	314,775	315,259
Total Revenue	\$896,912	\$855,017	\$965,161	\$1,038,051	\$1,111,857	\$1,194,202	\$1,284,194	\$1,381,672	\$1,468,638	\$1,551,413	\$1,615,546
Expenses						,	·		CONTRACTORISTOCICA	NAMES OF THE PROPERTY OF THE P	
Operating Expenses	\$609,837	\$692,408	\$708,151	\$739,254	\$773,319	\$807,283	\$889,346	\$881,574	\$922,197	\$962,700	\$1,007,062
Existing Debt Service	71,954	71,954	71,954	71,954	71,954	71,954	71,954	71,954	71,954	71,954	71,954
New Debt Service	0	0	0	0	0	34,000	34,000	34,000	34,000	34,000	34,000
Rate Funded Capital	\$58,800	\$265,722	\$225,429	\$262,874	\$197,737	\$272,295	\$440,321	\$460,135	\$480,841	\$502,479	\$478,279
Total Expenses	\$740,591	\$740,591 \$1,030,084	\$1,005,534	\$1,074,082	\$1,043,010	\$1,185,532	\$1,435,621	\$1,447,663	\$1,508,992	\$1,571,133	\$1,591,295
Net Revenues	\$156,321	\$175,067	\$40,373	-536,031	568,847	\$8,670	-5151,426	\$65,592	540,355	\$19,721	\$24,251
Endine Reserves	\$1,048,042	\$872,974	\$832,601	\$796,570	\$865,417	\$874,087	\$722,660	\$656,669	\$616,314	\$596,593	\$620,844
Debt Coverage	3.99	2.26	3.57	4.15	4.70	3.65	3.73	4.72	5.16	5.56	5.74
*Reflects January rate implementation	ntation										
Capital Funding	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28	FY 28-29	FY 29-30	FY 30-31	FY 31-32	FY 32-33
Capital Revenues											
Use of Debt Proceeds					\$500,000	,					
Rate Funded Capital	\$58,800	\$265,722	\$225,429	\$262,874	\$197,737	\$272,295	\$440,321	\$460,135	\$480,841	\$502,479	\$478,279
Total Capital Revenue	\$58,800	\$265,722	\$225,429	\$262,874	\$697,737	\$272,295	\$440,321	\$460,135	\$480,841	\$502,479	\$478,279
Total Capital Expenditures	\$58,800	\$265,722	\$225,429	\$262,874	\$697,737	\$272,295	\$440,321	\$460,135	\$480,841	\$502,479	\$478,279

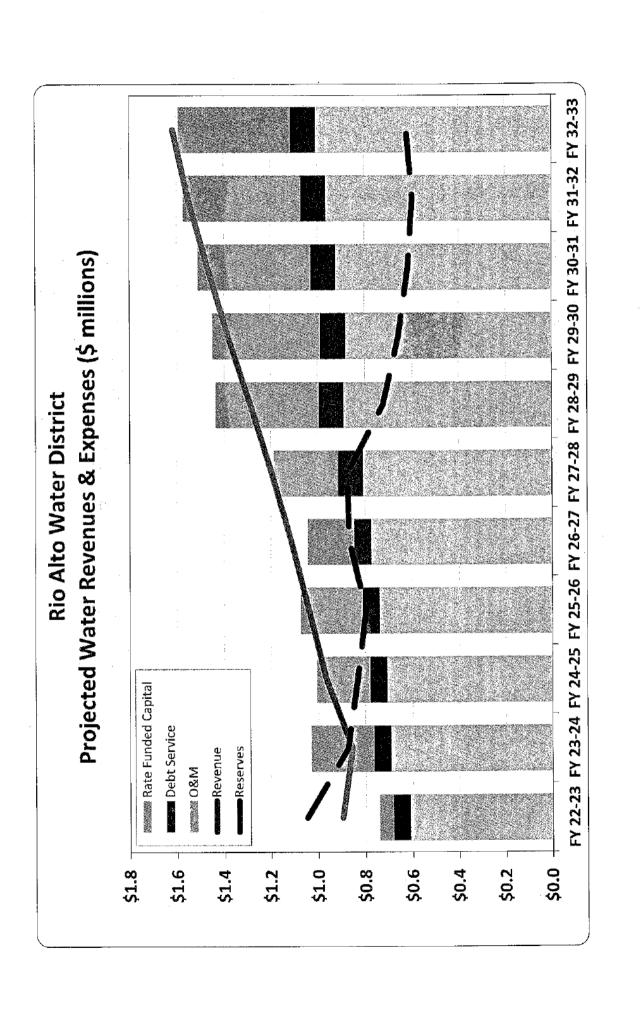


Table 6 Rio Alto WD Water Rate Study Customer Data

Customer Data	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22	Man g	FY 23-24
TY ISSENSOR INVESTIGATION OF THE PROPERTY OF T	Actua!	Actual	Actual	Actual	Actual	Actual	Projected
Total Water Production (CCF)	254,283	248,214	268,254	271,507	246,452	227,070	227,070
Billed, Metered Consumption (CCF)	231,695	225,599	250,999	247,510	232,326	210,642	210,642
Water Loss (%)	8.9%	9.1%	6.4%	8.8%	5.7%	7.8%	7.8%
Total Accounts (#)	1,322	1,340	1,365		1,412	1,412	1,412
Growth (%)		1.36%	1.87%	1.76%	1.66%	0.00%	0.00%
Annual Metered Use (CCF) per Account	175	168	184	178	165	165	165

Meter Equivalent Units Water Rate Study Rio Alto WD Table 7

Meter Size         Services         Ratio**         Units (MEUs)           3/4"         1,226         1.0         1,226.0           1"         180         1.7         300.6           2"         6         5.3         32.0           * Customer data as of June 2023 provided by staff         1,558.6	C	Coningo	************	Hoste (AdElle)
1,226 1.0 1,2 180 1.7 3 6 5.3 1,412.0 1,5		SELVICES	מחפע	
180 1.7 3 6 5.3 1,412.0 stomer data as of June 2023 provided by staff	3/4"	1,226	1.0	
6 5.3 <b>1,412.0</b> 1,5 stomer data as of June 2023 provided by staff	1.	180	1.7	300.6
1,412.0 stomer data as of June 2023 provided by staff	2"	9	5.3	32.0
* Customer data as of June 2023 provided by staff	Total	1,412.0		1,558.6
	* Customer data as o	f June 2023 provided by s	taff	

Table 8 Rio Alto WD Water Rate Study Functional Allocation

## Projected 5-Year Average

		Offsetting	Allocation				
Functional Allocation	Amount	Revenue	Amount	Customer	Capacity	All Volume	Total
Administration	\$531,066	\$83,997	\$447,069	25%	25%	70%	100%
Source of Supply	\$107,749	\$0	\$107,749		30%	70%	100%
Transmission & Distribution	\$141,933	\$0	\$141,933			100%	100%
Debt Service	\$71,954	\$0	\$71,954		20%	20%	100%
Capital	\$244,812	\$11,318	\$233,493		%09	40%	100%
Functional Allocation \$	\$1,097,514	\$95,315	\$1,002,199	\$245,888	\$320,165	\$436,146	\$1,002,199
Functional Allocation %				24.53%	31.95%	43.52%	100%
FY 23/24 Revenue Requirement				\$143,898	\$187,425	\$255,297	\$586,621

Table 9 Rio Alto WD Water Rate Study

Volumetric Charge Calculation

All Volume	of Measure CCF	rotal Water Use CCF 210,642	\$255,297 Sequirement	Cost (\$/Unit)
Allocation Units	Unit of Measure	Total Water Use	Revenue Require	Unit Cost (\$/Unit)

Bi-Wonthly Fixed Charge Calculation

						Component Bi-Monthly Fixed Charge	\$37.03	\$50.46	\$123.81
Capacity	MEUs	9,351	\$187,425	\$20.04	Bi-Monthly Capacity	Component Bi-N	\$20.04	\$33.47	\$106.83
Customer	Customers	8,472	\$143,898	\$16.99	Bi-Monthly Capacity	Component	\$16.99	\$16.99	\$16.99
ts	re	2	irement	Jnit)	Capacity	Factor**	1.00	1.67	5.33
Allocation Units	Unit of Measure	Allocation Units	Revenue Requirement	Unit Cost (\$/Unit)		Meter	3/4"	1,	2"

Table 10 Rio Alto WD Water Rate Study Water Rate Schedule

Current and Proposed	Existing	Proposed	Proposed	Proposed,	Proposed	Proposed
Water Rates	FY 22-23	Mar 1, 2024	Jul 1, 2024	Jul 1, 2025	Jul 1, 2026	Jul 1, 2027
Volumetric Rates (\$/CCF)						
Base Use (0-15 CCF)	\$0.00					
Volumetric (>15 CCF)	\$1.30					
Uniform Rate (All CCF)		\$1.21	\$1.35	\$1.50	\$1.65	\$1.82
Bi-Monthly Fixed Charge						
Meter Size						
3/4"	\$42.87	\$37.03	\$41.10	\$45.62	\$50.18	\$55.20
1"	\$58.45	\$50.46	\$56.01	\$62.17	\$68.39	\$75.23
2"	\$144.15	\$123.81	\$137.43	\$152.55	\$167.81	\$184.59

## **APPENDIX B**

**Wastewater Rate Study Tables** 

## Rio Alto Water District Draft Sewer Rate Study Tables



November 21, 2023

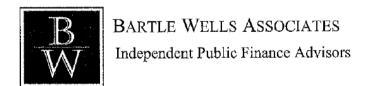


Table A Rio Alto WD Sewer Rate Study Sewer Rate Schedule

Existing and Proposed	Existing	Proposed	Proposed	Proposed	Proposed Jul 1, 2026	Proposed Jul 1, 2027
Sewer Rates	FY 22-23	Mar 1, 2024	Jul 1, 2024	Jul 1, 2025	JUI 1, 2020	JUI I, LULI
Bi-Monthly Fixed Charges						
Single Family Resid.	\$89.18	\$102.68	\$115.52	\$127.07	\$139.78	\$153.76
1/2 single Fam Resid.	\$44.59	\$51.34	\$57.76	\$63,54	\$69.89	\$76.88
TriPlex sewer	\$267.56	\$308.08	\$346.59	\$381.25	\$419.38	\$461.32
Duplex Sewer	\$178.37	\$205.38	\$231.05	\$254.16	\$279.58	\$307.54
Sewer Extention	\$105.26	\$102.68	\$115.52	\$127.07	\$139.78	\$153.76
Low Pressure	\$105.26	\$130.14	\$146.41	\$161,05	\$177.16	\$194.88
Low Pressure Duplex	\$210.52	\$260.28	\$292.82	\$322.10	\$354.31	\$389.74
Commercial	\$202.46	\$233.06	\$262.19	\$288.41	\$317.25	\$348.98
Volumetric Charges						
Commercial	\$0.55	\$0.65	\$0.73	\$0.80	\$0.88	\$0.97

Table 1 Rio Alto WD Sewer Rate Study Projected Operating Expenses

Control         Accord	Expenses <sup>1</sup>		FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28	FY 28-29	FY 29-30	FY 30-31	FY 31-32	FY 32-33
6.126         50,318         52,138         53,428         50,612         517,72         518,428         50,612         517,72         518,428         50,612         517,72         518,428         50,612         517,72         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428         518,428 <th>common annual different deficient parameter proportion of the common contract of the common</th> <th>accessores and a second and a second accessores a second accessores and a second accessores are a second accessores and a second accessores and a second accessores accessores and a second accessores and a second accessores a second accessores and a second accessores accessores and a second accessores accessores accessores and a second accessores are a second accessores and a second accessores a</th> <th>Actual</th> <th>Budgeted</th> <th>Projected</th> <th>Projected</th> <th>Projected</th> <th>Projected</th> <th>Projected</th> <th>Projected</th> <th>Projected</th> <th>Projected</th> <th>Projected</th>	common annual different deficient parameter proportion of the common contract of the common	accessores and a second and a second accessores a second accessores and a second accessores are a second accessores and a second accessores and a second accessores accessores and a second accessores and a second accessores a second accessores and a second accessores accessores and a second accessores accessores accessores and a second accessores are a second accessores and a second accessores a	Actual	Budgeted	Projected	Projected							
54,334         51,318         534,518         544,528         550,135         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729         547,729	General Inflation Factor				45%	9.5.7	4.59	12 M	4.5%		9.S.T	<b>K</b> 0.7	4.5
Figure   F	Sections Operator II	Treatment	64.294	30.318	\$31,682	\$33,108	\$34,598	\$36,155	\$37,782	\$39,482	\$41,259	\$43,115	\$45,055
	Regulatory Officer	Treatment	23,158	20,638	\$21,567	\$22,537	\$23,551	\$24,611	\$25,719	\$26,876	\$28,085	\$29,349	\$30,670
Treatment   125   22,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   52,000   5	Svs Operator III	Treatment	16,083	15,802	\$16,513	\$17,256	\$18,033	\$18,844	\$19,692	\$20,578	\$21,504	\$22,472	\$23,483
Transment	Part Time Employee	Treatment	\$53	2,700	\$2,822	\$2,948	53,081	\$3,220	\$3,365	\$3,516	\$3,674	\$3,840	\$4,012
	Auto Fuel	Treatment	3,874	2,150	\$2,247	\$2,348	\$2,454	\$2,564	\$2,679	\$2,800	\$2,926	\$3,058	\$3,195
Interpret   Continue	Auto Maintenance	Treatment	1,525	008	\$836	\$874	\$913	\$954	\$997	\$1,042	\$1,089	\$1,138	\$1,189
Participation   Protection	Auto Repair	Treatment	438	350	\$365	\$382	\$399	\$417	\$436	\$456	\$476	\$498	\$520
Treatment   T.T.   Fig. 10   Strick	Wetlands Utility	Treatment	\$113	\$60	\$63	\$66	\$9\$	\$72	\$75	\$78	\$82	\$85	885
Treatment 775 600 5105 5140 5141 5141 5141 5141 5141 51	WWTP Utility	Treatment	9,213	10,000	\$10,450	\$10,920	\$11,412	\$11,925	\$12,462	\$13,023	\$13,609	\$14,221	\$14,861
Treatment 652 9,000 0 515 0 5114 11 11 11 11 11 11 11 11 11 11 11 11	General Supplies	Treatment	775	909	\$627	\$655	\$685	\$716	\$748	\$781	\$817	\$883	\$892
Treatment   Acazis Signo   Secjeto	Tools	Treatment	\$69	100	\$105	\$109	\$114	\$119	\$125	\$130	\$136	\$142	\$149
Treatment   2,550   6,400   2,508   5,599   57,703   57,672   57,976   58,334   58,710   59,101	Chlorine/Bisuifite	Treatment	46.212	50,000	\$55,000	\$60,000	\$62,700	\$10,000	\$10,450	\$10,920	\$11,412	\$11,925	\$12,462
Treatment	Rartillah Suordins/Fourinment	Treatment	5.950	6.400	\$6,688	\$6,989	\$7,303	\$7,632	\$7,976	\$8,334	\$8,710	\$9,101	\$9,511
Treatment   158   2,000   5,219   5,180   5,1287   5,286   5,573   5,560   5,772   5,1344   5,1134   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344   5,1344	Direct Lab Connection	Treatment	308	200	\$523	\$546	\$571	\$596	\$623	\$651	\$680	\$711	\$743
Treatment	plant tab depends	Treatment		2.000	\$2,090	\$2,184	\$2,282	\$2,385	\$2,492	\$2,605	\$2,722	\$2,844	\$2,972
Paralment   1,057   1,000   51,045   51,092   51,141   51,193   51,246   51,302   51,351   51,425   51,351   51,425   51,351   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425   51,425	Don't lab Emitomont Maintenance	Treatment	158	200	\$523	\$546	\$571	965\$	\$623	\$651	\$680	\$711	\$743
Treatment   Treatment   S. 5965   6,000   56,270   56,520   5,5897   57,145   57,145   57,814   58,165   58,333     Treatment   Treatment   S. 5007   1,000   51,045   51,092   51,494   51,193   51,246   51,292   51,361   51,492     International   S. 5007   2,000   52,045   51,092   51,494   51,193   51,246   51,292   51,361   51,492     International   S. 5000   52,040   52,040   52,040   52,040   52,040   52,040     International   S. 5000   S. 5000   S. 50,04   S. 50,04   S. 50,04   S. 50,04   S. 50,04     International   S. 5000   S. 5000   S. 50,04   S. 50,04   S. 50,04   S. 50,04   S. 50,04     International   S. 5000   S. 5000   S. 50,04   S. 50,04   S. 50,04   S. 50,04   S. 50,04     International   S. 5000   S. 50,04   S. 50,04   S. 50,04   S. 50,04   S. 50,04   S. 50,04     International   S. 5000   S. 50,04     International   S. 5000   S. 50,04   S. 50,0	Contracted Services	Treatment	1.057	1,000	\$1,045	\$1,092	\$1,141	\$1,193	\$1,246	\$1,302	\$1,361	\$1,422	\$1,486
trendment         Treatment         Treatment         Treatment         Treatment         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,045         51,044         51,048         51,046         51,046         51,046         51,046         51,046         51,046         51,046         51,048         51,048         51,048         51,048         51,048         51,048         51,048         51,048         51,048         51,141         51,048         51,048         51,141         51,048         51,141         51,048         51,141         51,048         51,141         51,048         51,141         51,048         51,141         51,048         51,141         51,048         51,141         51,048         51,141         51,048         51,141         51,048         51,141         51,048         51,141         51,048         51,141         51,048         51,141         51,048         51,141         51,048	Shippe Disposal	Treatment	5,965	6,000	\$6,270	\$6,552	\$5,847	\$7,155	\$7,477	\$7,814	\$8,165	\$8,533	\$8,917
Treatment 4,770 5,000 55,025 5,460 55,766 5,5963 56,231 54,120 51,340 17.11  Treatment 4,770 5,000 55,025 55,460 55,766 55,963 56,231 56,511 56,804 57,111  Treatment 7,690 6,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000	Equipment Maintenance	Treatment	207		\$1,045	\$1,092	\$1,141	\$1,193	\$1,246	\$1,302	\$1,361	\$1,422	\$1,486
Treatment         4,770         5,000         5,522         5,546         5,5706         5,593         5,6211         5,684         57,111           Treatment         236         2,000         5,000         5,142         5,278         5,2492         5,5402         5,2402         5,1402         5,1133           Treatment         7,669         400         5,240         5,242         5,2402         5,2402         5,2402         5,140         5,1133         5,140         5,1133         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140         5,140 <td>Safety Supplies &amp; Eduloment</td> <th>Treatment</th> <td>831</td> <td></td> <td>\$1,045</td> <td>\$1,092</td> <td>51,141</td> <td>\$1,193</td> <td>\$1,245</td> <td>\$1,302</td> <td>\$1,361</td> <td>\$1,422</td> <td>\$1,486</td>	Safety Supplies & Eduloment	Treatment	831		\$1,045	\$1,092	51,141	\$1,193	\$1,245	\$1,302	\$1,361	\$1,422	\$1,486
Treatment   2.86   2.000   52,090   57,184   57,285   52,492   52,605   52,772   52,844   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   56,944   5	Equipment Repair	Treatment	4,770		\$5,225	\$5,460	\$5,706	\$5,963	\$6,231	\$6,511	\$6,804	\$7,111	\$7,430
Treatment (8,899 8,300 58,574 \$9,064 59,472 \$8,898 \$10,343 \$10,809 \$11,295 \$11,803 \$1,204 \$1,009 \$1,009 \$1,10,000 \$1,10,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00,000 \$1,00	Plant Maintenance	Treatment	236		\$2,090	\$2,184	\$2,282	\$2,385	\$2,492	\$2,605	\$2,722	\$2,844	\$2,972
Treatment 7,609 400 53.135 53.276 53.423 53.789 55.21 55.44 56.9 56.0 1	Wedands Maintenance	Treatment	8,699		\$8,674	\$9,064	\$9,472	\$9,898	\$10,343	\$10,809	\$11,295	\$11,803	\$12,335
Treatment 2,286	Wetlands Security	Treatment	7,609	400	\$418	\$437	\$456	\$477	\$498	\$521	\$544	\$269	\$594
Treatment 734 820 510,500 510,500 510,450 510,420 511,925 512,462 513,023 513,023 513,602 514,221  Treatment 734 820 5836 5874 5913 5954 510,42 511,02 511,03 511,03 511,03 510,03 511,03 510,03 511,03 510,03 511,03 511,03 510,03 511,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,03 510,0	Plant Repair	Treatment	2,286		\$3,135	\$3,276	\$3,423	\$3,578	\$3,739	\$3,907	\$4,083	\$4,265	\$4,458
Treatment	Waste Water Permit Testing	Treatment	9,116		\$10,450	\$10,920	\$11,412	\$11,925	\$12,462	\$13,023	\$13,609	\$14,221	\$14,861
Collection system         7,637         20,638         \$22,538         \$22,553         \$24,612         \$25,720         \$26,877         \$28,087         \$29,351           Collection system         13,502         22,000         \$33,446         \$34,445         \$36,517         \$39,878         \$41,672         \$43,548         \$45,507           Collection system         15,586         18,683         \$1,246         \$22,644         \$22,644         \$23,614         \$23,616         \$23,697         \$26,697           Collection system         3,874         2,700         \$2,822         \$2,948         \$5,104         \$23,616         \$23,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697         \$26,697	Telemetry System	Treatment	734		\$836	\$874	\$913	\$954	2665	\$1,042	\$1,089	\$1,138	51,189
Collection system         13,502         333,400         \$34,945         \$36,517         \$38,161         \$33,878         \$41,672         \$43,548         \$45,507           Collection system         15,586         28,924         \$20,084         \$22,644         \$22,644         \$23,261         \$3,4695         \$28,806         \$26,697           Collection system         \$40         \$270         \$2,247         \$2,448         \$24,649         \$24,695         \$28,696         \$26,697           Collection system         \$54         \$2,747         \$2,448         \$24,244         \$2,454         \$2,564         \$2,280         \$26,697           Collection system         \$60         \$22,47         \$2,448         \$2,454         \$2,457         \$2,498         \$3,138           Collection system         \$3,44         \$3,68         \$3,822         \$3,994         \$4,174         \$4,362         \$4,763         \$4,977           Collection system         \$3,50         \$3,66         \$3,822         \$3,994         \$4,174         \$4,362         \$4,763         \$4,977           Collection system         \$3,50         \$3,60         \$3,994         \$4,174         \$4,136         \$4,178         \$4,174         \$4,136         \$4,178         \$4,174 <t< td=""><td>Regulatory Officer</td><th>Collection System</th><td>7,637</td><td></td><td>\$21,568</td><td>\$22,538</td><td>\$23,553</td><td>\$24,612</td><td>\$25,720</td><td>\$26,877</td><td>\$28,087</td><td>\$29,351</td><td>\$30,672</td></t<>	Regulatory Officer	Collection System	7,637		\$21,568	\$22,538	\$23,553	\$24,612	\$25,720	\$26,877	\$28,087	\$29,351	\$30,672
Collection System         15,586         \$19,816         \$20,708         \$21,640         \$22,614         \$53,613         \$24,695         \$25,806         \$26,967           Collection System         \$40         \$2,070         \$2,243         \$2,248         \$3,084         \$3,375         \$3,405         \$3,874         \$3,800           Collection System         \$40         \$2,150         \$2,247         \$2,248         \$2,454         \$2,679         \$2,280         \$2,296         \$3,800           Collection System         \$40         \$2,146         \$2,244         \$2,244         \$2,444         \$2,679         \$2,246         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,800         \$3,	Sys Operator II	Collection System	13,502	32,000	\$33,440	\$34,945	\$36,517	\$38,161	\$39,878	\$41,672	\$43,548	\$45,507	\$47,555
Collection system 540 2,700 52,822 52,948 53,081 53,256 53,516 53,674 53,840 53,840 Collection system 3,874 2,150 52,247 51,248 52,454 52,679 52,800 52,226 53,038 53,840 50,000 52,226 53,038 54,174 54,352 54,526 54,138 54,174 54,352 54,138 54,174 54,352 54,138 54,174 54,132 54,138 54,174 54,132 54,138 54,174 54,132 54,138 54,174 54,132 54,138 54,174 54,132 54,138 54,174 54,132 54,138 54,174 54,132 54,138 54,174 54,132 54,138 54,174 54,132 54,138 54,174 54,132 54,138 54,174 54,132 54,138 54,174 54,132 54,138 54,174 54,132 54,138 54,138 54,174 54,132 54,138 54,138 54,174 54,132 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138 54,138	Sys Operator III	Collection System	15,585	18,963	\$19,816	\$20,708	\$21,640	\$22,614	\$23,631	\$24,695	\$25,806	\$26,967	\$28,187
Collection system         3,874         2,150         \$2,247         \$2,348         \$2,444         \$2,554         \$2,679         \$2,800         \$2,926         \$3,638           Collection system         1,486         800         \$836         \$874         \$913         \$954         \$2,679         \$2,800         \$2,926         \$3,638           Collection system         620         \$356         \$368         \$382         \$399         \$417         \$436         \$4,588         \$4,763         \$4,987           Collection System         1,528         10,000         \$10,450         \$10,420         \$11,412         \$11,925         \$13,605         \$14,721         \$11,925         \$13,605         \$14,221           Collection System         1,531         10,000         \$10,450         \$11,412         \$11,925         \$13,605         \$14,622         \$13,605         \$14,622           Collection System         1,750         \$10,450         \$273         \$285         \$298         \$312         \$4,586         \$4,367         \$4,124         \$4,124         \$4,136         \$4,136         \$4,124         \$4,124         \$4,136         \$4,136         \$4,124         \$4,136         \$4,136         \$4,136         \$4,136         \$4,136         \$4,136	Part Time Employee	Collection System	642		\$2,822	\$2,948	\$3,081	\$3,220	\$3,365	\$3,516	\$3,674	\$3,840	\$4,012
mance         Collection System         1,486         800         \$836         \$874         \$913         \$954         \$97         \$1,089         \$1,138           mstA,5,6,7 utility         Collection System         620         356         3382         5382         5394         \$4174         \$436         \$458         \$477         \$498           mstA,5,6,7 utility         Collection System         3,444         3,500         \$3,658         \$3,822         \$3,994         \$4,174         \$4,362         \$4,558         \$4,763         \$4,977           tutility         Collection System         1,528         10,000         \$10,450         \$11,412         \$1,192         \$11,425         \$11,425         \$11,422         \$11,432         \$11,422         \$13,023         \$1,460         \$14,221           ples         Collection System         1,53         10,000         \$10,450         \$11,412         \$11,933         \$11,246         \$13,023         \$1,360         \$14,221           ples         Collection System         1,750         \$20         \$21,41         \$11,933         \$1,246         \$1,302         \$1,321         \$1,347         \$1,346         \$1,341         \$1,346         \$1,341         \$1,346         \$1,341         \$1,346 <t< td=""><td>Auto Fuel</td><th>Collection System</th><td>3,874</td><td></td><td>\$2,247</td><td>\$2,348</td><td>\$2,454</td><td>\$2,564</td><td>\$2,679</td><td>\$2,800</td><td>\$2,926</td><td>\$3,058</td><td>\$3,195</td></t<>	Auto Fuel	Collection System	3,874		\$2,247	\$2,348	\$2,454	\$2,564	\$2,679	\$2,800	\$2,926	\$3,058	\$3,195
Collection System         620         \$56         \$36         \$382         \$399         \$417         \$436         \$456         \$476         \$498           R34,5,5,7 utility         Collection System         3,444         3,500         \$3,658         \$3,894         \$4,174         \$4,582         \$4,558         \$4,783         \$4,977           2 utility         Collection System         3,500         \$3,658         \$3,894         \$4,174         \$4,582         \$4,588         \$4,783         \$4,977           1 utility         Collection System         1,532         10,000         \$10,920         \$11,412         \$11,925         \$13,023         \$13,023         \$14,721           piles         Collection System         1,531         1,000         \$10,450         \$1,141         \$1,193         \$1,246         \$1,302         \$1,341         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1,424         \$1	Auro Maintenance	Collection System	1,486	9008	\$836	\$874	\$913	\$954	\$997	\$1,042	\$1,089	\$1,138	\$1,18
R8.45,5,7 Utility         Collection System         3,444         3,500         53,628         53,822         53,994         54,174         \$4,362         \$4,558         \$4,763         \$4,977           12 Utility         Collection System         3,502         53,658         53,822         53,994         54,174         \$4,362         54,558         54,763         54,977           12 Utility         Collection System         1,538         10,000         \$10,045         \$11,041         \$11,192         \$12,462         \$13,023         \$13,609         \$14,221           poles         Collection System         1,631         1,000         \$2,045         \$1,141         \$1,193         \$1,246         \$1,302         \$1,301         \$14,221           poles         Collection System         1,631         250         \$2,261         \$2,733         \$385         \$34         \$34         \$36         \$36           Repair         Collection System         1,750         2261         \$273         \$385         \$38         \$31         \$34         \$36         \$9         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0	Auto Repair	Collection System	620	350	\$366	\$382	\$399	\$417	\$436	\$456	\$476	\$498	\$25
Collection System 3,672 3,500 53,638 53,822 53,994 54,174 \$4,362 \$4,558 54,763 54,977 Collection System 12,528 10,000 \$10,450 \$10,920 \$11,412 \$11,925 \$12,462 \$13,023 \$13,609 \$14,221 Collection System 1,631 1,000 \$1,045 \$1,092 \$1,141 \$1,135 \$12,46 \$1,302 \$1,360 \$1,4221 Collection System 1,750 \$261 \$273 \$285 \$312 \$326 \$340 \$356 Collection System 5,750 \$20 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Lift Stations #3,4,5,6,7 Utility	Collection System	3,444	3,500	\$3,658	\$3,822	\$3,994	\$4,174	\$4,362	\$4,558	\$4,763	\$4,977	\$5,201
y collection System 12,528 10,000 \$10,450 \$10,920 \$11,412 \$11,925 \$12,462 \$13,023 \$13,609 \$14,221 Collection System 1,631 1,000 \$1,045 \$1,045 \$1,104 \$1,143 \$1,246 \$1,302 \$1,361 \$1,422 Collection System 1,750 250 \$261 \$273 \$285 \$298 \$312 \$325 \$340 \$356 Collection System \$40 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$1	Lift Station #2 Utility	Collection System	3,672	3,500	\$3,658	\$3,822	\$3,994	\$4,174	\$4,362	\$4,558	\$4,763	\$4,977	\$5,201
Collection System 1,631 1,000 \$1,045 \$1,092 \$1,141 \$1,193 \$7,246 \$1,302 \$1,361 \$1,422 Collection System 1,750 \$261 \$273 \$285 \$298 \$312 \$326 \$340 \$356 Collection System \$50 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Lift Station #1 Utility	Collection System	12,528	10,000	\$10,450	\$10,920	\$11,412	\$11,925	\$12,462	\$13,023	\$13,609	\$14,221	514,861
Collection system 1,750 250 \$261 \$273 \$285 \$298 \$312 \$325 \$340 \$356 Collection system 5 5 5 50 \$0 \$0 \$0 \$0 \$0	General Supplies	Collection System	1,631	1,000	\$1,045	\$1,092	\$1,141	\$1,193	\$1,246	\$1,302	\$1,361	\$1,422	\$1,486
Collection System (2015) 1 50 50 50 50 50 50 50 50 50	Tools	Collection System	1,750	250	\$251	\$273	\$285	\$298	\$312	\$326	\$340	\$356	\$31
	Safety Equip Repair	Collection System			Ç	S.	\$0	S;	₽\$	\$	₽.	\$0	Ň

Table 1 Rio Alto WD Sewer Rate Study Projected Operating Expenses

Expenses		FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28	FY 28-29	FY 29-30	FY 30-31	FY 31-32	FY 32-33
		Actual	Budgeted	Projected								
General Inflation Factor				4.57	4.5%	4.5%	4.5%	ì	Š.	4.0	G)	4.5%
	; ;			7013	. 0	3300	ÇOOP	ćast	4077	\$1.001	\$1.057	41.15
Telemetry System	Collection System	763	0901	\$1.045	C1 097	\$1.141	\$1.193	\$1.246	\$1.302	\$1.361	\$1,422	\$1,486
Equipment Report	Collection System	619		\$1,568	\$1,638	\$1,712	\$1,789	\$1,869	\$1,953	\$2,041	\$2,133	\$2,229
Contracted Services	Collection System	11,600	8	\$523	\$546	\$571	\$596	\$623	\$651	\$680	\$711	\$743
Lift Station Maintenance	Collection System	391	1,000	\$1,045	\$1,092	\$1,141	\$1,193	\$1,246	\$1,302	\$1,361	\$1,422	\$1,486
Lift Station Repair	Collection System	4,997		\$5,225	\$5,460	\$5,706	\$5,963	\$6,231	\$6,511	\$6,804	\$7,111	\$7,430
Sewer Line Maintenance	Collection System	486		\$1,045	\$1,092	\$1,141	\$1,193	\$1,246	\$1,302	\$1,361	\$1,422	\$1,486
Sewer Line Repair	Collection System	1,880	3,000	\$3,135	\$3,276	\$3,423	\$3,578	\$3,739	\$3,907	\$4,083	\$4,266	\$4,458
General Manager	Administration	49,412	49,576	\$51,807	\$54,138	\$56,574	\$59,120	\$61,781	\$64,561	\$67,466	\$70,502	\$73,675
Regulatory Officer	Administration	7,245	9,326	95/6\$	\$10,184	\$10,643	\$11,121	\$11,622	\$12,145	\$12,691	\$13,263	\$13,859
Operations Supervisor	Administration			\$\$	\$0	\$	S,	\$0	\$0	8	20	\$0
Systems Operator II	Administration	88	1,899	\$1,984	\$2,074	\$2,167	\$2,265	\$2,366	\$2,473	\$2,584	\$2,701	\$2,822
Svs Operator III	Administration	211	790	\$826	\$863	\$902	\$942	\$984	\$1,029	\$1,075	\$1,123	\$1,174
Secretary	Administration	20,528	19,656	\$20,541	\$21,465	\$22,431	\$23,440	\$24,495	\$25,597	\$26,749	\$27,953	\$29,211
Bookkeener	Administration	21.428	25.113	\$26,243	\$27,424	\$28,658	\$29,948	\$31,295	\$32,704	\$34,175	\$35,713	\$37,320
PERS Employer Linfunded Liability	Administration	46.585	42,285	\$44,188	\$46,176	\$48,254	\$50,426	\$52,695	\$55,066	\$57,544	\$60,134	\$62,840
Workers Comp Insurance	Administration	3,759	3,924	\$4,101	\$4,285	\$4,478	\$4,679	\$4,890	\$5,110	\$5,340	\$5,580	\$5,831
47	Administration	19.106	20,399	\$21,317	\$22,276	\$23,279	\$24,326	\$25,421	\$26,565	\$27,760	\$29,009	\$30,315
DERK Retirement	Administration	20.622	23.450	\$24,516	\$25,619	\$26,772	\$27,976	\$29,235	\$30,551	\$31,926	\$33,362	\$34,864
Hoo Ha Institution of MA	Administration	37,295		\$35,125	\$36,705	\$38,357	\$40,083	\$41,887	\$43,772	\$45,741	\$47,800	\$49,951
	Administration	2013		\$1,705	\$1,782	\$1,862	\$1,946	\$2,034	\$2,125	\$2,221	\$2,321	\$2,425
Dontal Africa Insurance	Administration	3,523		53,248	\$3,394	\$3,547	\$3,706	\$3,873	54,047	\$4,230	\$4,420	\$4,619
Title Territorion	Administration	<b>1</b>	73	\$744	\$778	\$813	\$849	\$887	\$927	696\$	\$1,013	\$1,058
Desires Double Benefits	Administration	10 201	12 398	\$12.954	\$13,537	\$14.146	\$14,782	\$15,448	\$16,143	\$16,869	\$17,628	\$18,422
Coll Dhone Allowance	Administration	383	346	\$362	\$378	\$395	\$413	\$431	\$451	\$471	\$492	\$514
office and an advention	Administration	8 3 3 4	C02 C	¢10 337	\$10.802	\$11.288	\$11.796	\$12,327	\$12,882	\$13,462	\$14,067	\$14,700
PERKA Employer Concludations PEPBA Employer Unfunded Liability	Administration	852	0	\$	80	\$0\$	S	8	<b>S</b>	\$0	\$	\$
Alarm System Monitoring	Administration	140	Y .	\$351	\$367	\$383	\$401	\$419	\$438	\$457	\$478	\$499
Supplies	Administration	3,044		\$3,135	\$3,276	\$3,423	\$3,578	\$3,739	\$3,907	\$4,083	\$4,266	\$4,458
Postage	Administration	3,233	3,114	\$3,254	\$3,401	\$3,554	\$3,714	53,881	\$4,055	\$4,238	\$4,428	\$4,628
Printing	Administration	651		\$624	\$652	\$681	\$712	\$744	1118	\$812	\$849	\$887
Employee Travel/Expenses	Administration	1,832		\$2,090	\$2,184	\$2,282	\$2,385	\$2,492	\$2,605	\$2,722	\$2,844	\$2,972
Employee Meeting/Conferences	Administration	578	1,000	\$1,045	\$1,092	\$1,141	\$1,193	\$1,246	\$1,302	\$1,361	\$1,422	\$1,486
Education	Administration	800	400	\$418	\$437	\$456	\$477	\$498	\$521	\$544	\$569	\$594
Certificate Renewal	Administration	390		\$408	\$426	\$445	\$465	\$486	\$508	\$531	\$555	\$280
Public Relations	Administration	515	009	\$627	\$655	\$682	\$716	\$748	\$781	\$817	\$853	\$892
District Uniforms	Administration	<b>9</b>	640	\$669	569\$	\$730	\$763	\$22\$	\$833	\$871	\$910	\$951
Membership/Subscription	Administration	720	525	\$549	\$573	655\$	\$626	\$654	\$684	\$714	\$747	\$780
Banking/Court Costs	Administration	1,146		\$1,881	\$1,966	\$2,054	52,147	\$2,243	\$2,344	\$2,450	\$2,560	\$2,675
Advertising & Website	Administration	182	200	\$209	\$218	\$228	\$239	\$249	\$260	\$272	\$284	\$297

Table 1
Rio Alto WD
Sewer Rate Study
Projected Operating Expenses

Expenses		FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28	FY 28-29	FY 29-30	FY 30-31	FY 31-32	FY 32-33
riktuden som de, tild delking den aktiviske killen ken kriver kriver kan som proporter, menne kan		Actual	Badgeted	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
General Inflation Factor				4.5.9	45%		4.5%	5		4.5	10.7	χ. Σ
Insurance	Administration	16,789	19,140	\$20,001	\$20,901	\$21,842	\$22,825	\$23,852	\$24,925	\$26,047	\$27,219	\$28,444
Propage - Sat Cat	Administration	87	125	\$131	\$137	\$143	\$149	\$156	\$163	\$170	\$178	\$186
Equipment Lease	Administration	2,558	3,538	\$3,697	\$3,864	\$4,037	\$4,219	\$4,409	\$4,607	\$4,815	\$5,031	\$5,258
Misc. Office Equip. Expense	Administration	1,977	909	\$627	\$655	\$685	\$716	\$748	\$781	\$817	\$823	\$832
Office Equipment Maintenance	Administration		200	\$209	\$218	\$228	\$239	\$249	\$260	\$272	\$284	\$297
Office Building Maintenance	Administration	529	540	\$669	\$699	\$730	\$763	\$798	\$833	\$871	\$910	\$951
Safety Supplies	Administration	290	200	\$523	\$546	\$571	\$596	\$623	\$651	\$680	\$711	\$743
Contracted Services	Administration	2,275	2,514	\$2,627	\$2,745	\$2,869	\$2,998	\$3,133	\$3,274	\$3,421	\$3,575	\$3,736
Engineering	Administration		5,000	\$5,225	\$5,460	\$5,706	\$5,963	\$6,231	\$6,511	\$6,804	\$7,111	\$7,430
Lot Selling Expense	Administration		100	\$105	\$109	\$114	\$119	\$125	\$130	\$136	\$142	\$149
Office Utility	Administration	A	9	\$63	\$66	898	\$72	\$75	\$78	\$82	\$85	68\$
Telephone	Administration	819	821	\$828	\$897	\$937	626\$	\$1,023	\$1,069	\$1,117	\$1,168	\$1,220
Service Fee - State	Administration	36,201	39,821	\$41,613	\$43,486	\$45,442	\$47,487	\$49,524	\$51,857	\$54,191	\$56,629	\$59,178
Service Fee - County	Administration	2,489	2,500	\$2,717	\$2,839	\$2,967	\$3,101	\$3,240	\$3,386	\$3,538	\$3,697	\$3,864
Service Fee - Federal SSA	Administration		100	\$105	\$109	\$114	\$119	\$125	\$130	\$136	\$142	\$149
Auditor	Administration	5,390	5,500	\$5,852	\$6,115	\$6,391	\$6,678	626'9\$	\$7,293	\$7,621	\$7,964	\$8,322
Legal Counsel	Administration	1,753	1,600	\$1,672	\$1,747	\$1,826	\$1,908	\$1,994	\$2,084	\$2,177	\$2,275	\$2,378
Board Meeting Supplies	Administration	149	150	\$157	\$164	\$171	\$179	\$187	\$195	\$204	\$213	\$223
Director Fees	Administration	2,640	3,360	\$3,511	\$3,669	\$3,834	\$4,007	\$4,187	\$4,376	\$4,572	\$4,778	\$4,993
Directors Travel/Conferences	Administration	3,297	4,500	\$4,703	\$4,914	\$5,135	\$5,366	\$5,608	\$5,860	\$6,124	\$6,399	\$6,687
Sewer Rate Study	Administration		14,000					\$17,447				
Asset Evaluation Consultant	Administration		10,000					\$12,462				
Director Election (non-election yr.)	Administration	1,558	400		\$437		\$477		\$521		\$269	
Director Election (election yr.)	Administration			\$1,572		\$1,826		\$1,994		\$2,177		\$2,378
Computer/Software Upgrades & Su	Administration	3,767	4,148	\$4,335	\$4,530	\$4,734	\$4,947	\$5,169	\$5,402	\$5,645	\$5,899	\$6,154
Computer Software Update	Administration		Q	\$0	\$0	\$0	-Ş.	ŝ	Q\$	\$	ÇŞ.	CŞ.
Liability to Water Enterprise	Administration			\$23,592	\$23,592	\$23,592	\$23,592	\$23,592	\$23,592	\$23,592	\$23,592	\$23,592
OPEB Liability	Administration			\$10,000	\$10,450	\$10,920	\$11,412	\$11,925	\$12,462	\$13,023	\$13,609	\$14,221
Computer Upgrades	Administration			\$4,000	\$4,180	\$4,368	\$4,565	\$4,770	\$4,985	\$5,209	\$5,443	\$5,688
GASB OPEB Evaluations (total eval)	Administration		1,000		\$1,092		\$1,193		\$1,302		\$1,422	
GASB OPEB Evaluations (disclosure)	Administration			\$209		\$22\$		\$249		\$272		\$297
OPEB Contributions (CERBT Trust)	Administration	200		\$0	0\$	05	0\$	0\$	8	\$0	\$0	8
Total Operating Expenses		\$651,041	\$684,265	\$730,737	\$764,647	\$798,451	\$777,321	\$841,645	\$846,683	\$884,265	\$922,427	\$963,470
and the second s	dibon mode	antione reflecting the		and remitted encountries and president								

<sup>&</sup>lt;sup>1</sup> Based on District's FY 23-24 budget with minor modifications reflecting the updated capital spending projections

Rio Alto WD Sewer Rate Study Projected Revenues Table 2

Revenue	Category	Escalation	Œ	FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28	FY 28-29	FY 29-30	FY 30-31	FY 31-32	FY 32-33
SACRESOR CELARADA LO ARRECTOR DE CONTRACADA	code especial and consistence of the consistence of	escéliséesement runeronnement de particular de la company	Actual	Padeted	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Revenue Assumptions													
Customer Growth		Grawth			0.22%	0.22%	0.22%		0.25	0.22%	2.2	A. 0.22%	0.23%
Cell Tower		le)		- 1		3,003	300%	400%	×0.5	3,00%	3,00 E		2006
Interest Rate on Reserves		hterest			9.0 t	3.0%	¥0.1	1.0%	1.0%	104	56) T	30 T	0.0
Rate Revenue													
Rate Revenue Before Increase		Growth	\$504,391	\$503,832	\$580,681	\$654,544	\$721,310	\$794,756	\$875,550	\$955,731	\$1,043,131	\$1,091,914	\$1,142,895
Revenue from Rate Increase <sup>3,2</sup>				\$37,787	\$72,426	\$65,183	\$71,702	\$78,872	\$78,083	\$85,110	\$46,385	\$48,473	\$50,654
Total Rate Revenue			\$504,391	\$541,619	\$653,107	\$719,727	\$793,012	\$873,628	\$953,633	\$1,040,342	\$1,089,517	\$1,140,386	\$1,193,549
Other Revenue													
Avail Sewer Revenue	As All Other	None	\$49,672	\$47,712	\$47,712	\$47,712	\$47,712	\$47,712	\$47,712	\$47,712	\$47,712	\$47,712	\$47,712
Cell Tower Lease Revenue	As All Other	= 3	\$10,200	\$13,950	\$18,450	\$19,004	\$19,574	\$20,161	\$20,766	\$21,389	\$22,030	\$22,691	\$23,372
Sewer Interest Revenue	As All Other	Interest	\$7,249	\$3,100	\$2,720	\$3,149	\$3,270	\$3,634	\$4,662	\$4,693	\$4,690	\$4,540	\$4,676
Connections Sewer Revenue	Capital	None	\$18,152	\$13,614	\$9,076	\$9,076	\$5,076	\$9,076	\$9,076	\$9,076	\$9,076	\$9,076	\$9,076
Tax Revenue BAID	As All Other	None	\$87,106	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000
Interest Revenue RAID	As All Other	None	\$1,932		95	QŞ.	Ç\$	5	\$	0 <b>5</b>	8	55	S
County Penalty/Interest	As All Other	None	\$476	\$700	\$700	\$700	\$700	\$700	\$700	\$700	\$700	\$700	\$700
Administrative Revenue	Administration	None	\$14,382	\$13,200	\$13,200	\$13,200	\$13,200	\$13,200	\$13,200	\$13,200	\$13,200	\$13,200	\$13,200
Capacity Expansion Interest RAID	As All Other	None	\$17		\$	\$0	\$	8	\$	\$0	S	S\$	St.
LAIF Capacity Expansion Interest	Other Revenues	None	\$2,839	52,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Capacity Expansion Revenue RAID	As All Other	None	\$1,943										
Total Other Revenue			\$193,958	\$169,276	\$168,858	\$169,841	\$170,532	\$171,483	\$173,116	\$173,770	\$174,408	\$174,919	\$175,735
Total Revenue			\$698,359	\$710,895	\$821,965	2989,567	\$963,544	\$1,045,111	\$1,126,749	\$1,214,611	\$1,263,925	\$1,315,305	\$1,369,284

Additional revenue based on recommended increase Adjusted if rates adopted in the middle of fiscal year

Table 3 Rio Alto WD Sewer Rate Study Capital Improvement Costs

Assessment of the control of the con	sammens conservatives comparing the district for				17-07 14	FY 21-43	F1 79-73	FT 29-50	FY 50-51	FY 31-32	FY 32-33
EXTRACTOR LEVER CONTRACTOR OF THE SECOND CONTR	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Onsite Hypo Generation at WWTP Replace Oxidation Ditch Aeration System Replace Muffin Monster w/ Multi-rake Bar Screen Lift Station 1 Lift Station 2 Lift Station 4 Lift Station 5 Lift Station 5 Lift Station 6 Lift Station 6 Lift Station 6	reen			395,000	238,805 91,500 60,000 60,000			532,500	000'09 000'09 000'09		
Office AC Office Roof Annual Allowance for Wastewater Treatment Replacement Pipeline Replacement Vehicle Replacement	t Replacement	5,200	15,000	15,000	15,000	40,000	50,000 80,000 15,000	50,000 80,000 15,000	50,000 80,000 15,000	50,000 80,000 15,000	50,000 80,000 15,000
Total CIP (Current Dollars)	\$0	\$19,200	\$15,000	\$410,000	\$465,305	\$55,000	\$145,000	\$677,500	\$385,000	\$145,000	\$145,000
CiP (inflated Dollars)	етементельности и предестава	US	US	######################################	05	50 50	\$0	\$0	\$0	05	0\$
Onsite Hydo Generation at WWTP	3 5	S 58	93	. <b>.</b> .	\$272,516	\$	\$0	80	\$0	95.	\$0
Replace Oxidation Ditch Aeration Syster	. 53	S	\$0	5.	\$	\$0	\$0	\$693,454	0\$	d\$	Q\$
Replace Muffin Monster w/ Multi-rake I	8	\$0	\$0	\$431,350	Ş.	S,	\$0	\$0	S₹	5	Ď.
Lift Station 1	8	\$0	0\$	<b>Ŗ</b>	\$104,417	<b>%</b>	\$0	S.	S	Я.	\$0
Lift Station 2	8	\$0	\$0	\$	\$68,470	<b>S</b>	g, .	S	os :	80	\$0
1ift Station 3	\$	\$0	Ş.	8	\$68,470	S \$	05	S. 4	8 (	8.8	3 8
Lift Station 4	S. 1	\$0\$	8.8	8 8	D, 50	D\$ 5	S. 5	2.5	281,852 \$31,652	3 8	8 8
Lift Station 5	3.5	7. S	2.8	3.59	8 8	\$ 0\$	<b>.</b> S.		\$81,652	S	. S.
Cit Station 7	; 5A	5	. 8	. S	OS:	Ş	C\$	8	\$81,652	S	35
	5 05	QŞ.	. &	0\$	\$0	\$0	S.	20,	\$0	\$	0%
Office &C	. \$	\$5.200	S	Ş	\$0	\$0	8	\$0	SS	S\$	₽.
Office Boof	\$0\$	\$14,000	8	\$0\$	\$0	S	8.	So	\$	OŞ:	\$
Appural Allowance for Wastewater Treat	Ş	\$	57	\$6	0\$	ŝ	\$62,309	\$65,113	\$68,043	\$71,105	\$74,305
Dineline Replacement	205	. S	. S.	\$0	S	\$47,701	\$69,66\$	\$104,181	\$108,869	\$113,768	\$118,888
Vehicle Replacement	05	. 58	\$15,675	\$16,380	\$17,117	\$17,888	\$18,693	\$19,534	\$20,413	\$21,332	\$22,291
Jan-00	\$ P\$	. S.	, S	O\$	\$0	8	o\$	οş	\$\$	\$0	\$0
Total CiP (Inflated Dollars)	\$0	\$19,200	\$15,675	\$447,730	\$530,990	\$65,589	\$180,696	\$882,281	\$523,932	\$206,205	\$215,484
Annual Inflation Rate			4.5%	4.5%	4.5%	45%	4.5%	4.5%	4.5%	4.5%	4.5%

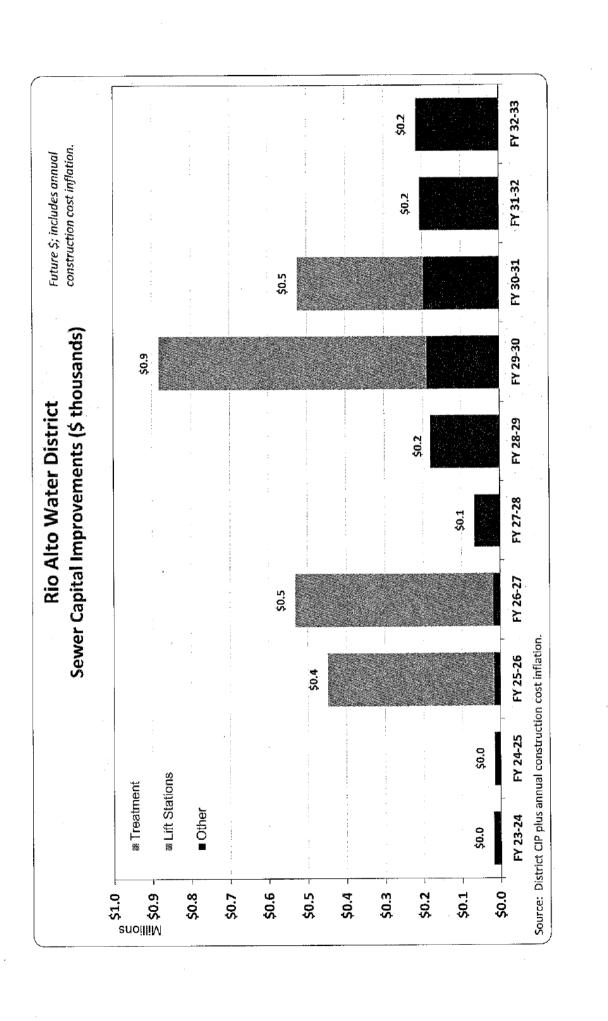


Table 4 Rio Alto WD Sewer Rate Study Debt

Debt	FY 21-22	FY 22-23		FY 24-25	FY 25-26	£8 26-27	FY 27-28	FY 28-29	FY 29-30	FY 30-31	FY 31-32	FY 32-33
живоми телекто мененененененененененененененененененен	Actual	senoremente meret Budgeted	Budgeted	Projected	Projected	Projected	Projected	Projected	Projected	Projected Projected Projected	Projected	Projected
Existing Debt												
WWTP CEC Loan Payments	\$18,055	\$25,378	\$25,431	\$25,431	\$25,431	\$25,431	\$25,431	\$25,431	\$25,431	\$25,431	\$25,431	\$25,431
CEC Loan Payments	\$1,171	\$1,646	\$1,608	\$1,608	\$1,608	\$1,608	\$1,508	\$1,608	\$1,508	\$1,608	\$1,608	\$1,608
CEC Interest Payments	\$4,773	\$4,597	\$4,338	\$4,338	\$4,338	\$4,338	\$4,338	\$4,338	\$4,338	\$4,338	\$4,338	\$4,338
Total Current Debt Service	\$23,999	\$31,621	\$31,377	\$31,377	\$31,377	\$31,377	\$31,377	\$31,377	\$31,377	\$31,377	\$31,377	\$31,377
Proposed Borrowing												
Net Proceeds Needed					\$900,000				\$950,000			
Repayment Term (yrs)					30				30			
Interest Rate					8.0%			,	5.0%			
Month of Issue					1				e+i			
Issuance Cost					\$50,000				\$50,000			
Total Debt Issue Size					\$950,000				\$1,000,000			
Prorated Debt Service Payment - Current Yr. Only	irrent Yr. Only				\$31,000				\$32,500			
Annual Debt Service Payment (rounded)	(pep)				\$62,000				\$65,000			
Total Proposed Annual Water Debt Sen	er \$0	S	\$0	\$0	\$31,000	\$62,000	\$62,000	\$62,000	\$94,500	\$127,000	\$127,000	\$127,000

Table 5 Rio Alto WD Sewer Rate Study Cash Flow Projections

Sewer Fund	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 24-25 FY 25-26 FY 26-27	FY 27-28	FY 28-29	FY 29-30	FY 30-31	FY 31-32	FY 32-33
Rate Revenue Increase	7	15.0%	12.5%	10.0%	10.0%		%0.6	9.0%	4.5%	4.5%	4.5%
	\$280,267	\$295,964	•	\$314,918	\$327,019	\$363,450	\$466,235	\$469,304	\$469,014	\$454,015	\$467,566
Revenues									Downstroops and Stroops and Stroops	garpencus como considerá sobritánico	ORDER DESIGNATION OF THE PERSON OF THE PERSO
Rate Revenue	\$504,391	\$503,832	\$579,406	\$651,832	\$717,015	\$788,717	\$867,589	\$945,672	\$1,030,782	\$1,077,167	\$1,125,640
Rate Increase Revenue	0	75,575	72,426	65,183	71,702	78,872	78,083	85,110	46,385	48,473	50,654
Timing Adjustment*		-37,787									
Other Revenue	193,968	169,276	168,858	169,841	170,532	171,483	173,116	173,770	174,408	174,919	175,735
Total Revenue	\$698,359	\$710,895	\$820,690	\$886,856	\$959,249	\$1,039,072	\$1,118,787	\$1,204,552	\$1,251,576	\$1,300,559	\$1,352,029
Expenses											
Operating Expenses	\$651,041	\$684,265	\$730,737	\$764,647	\$798,451	\$777,321	\$841,645	\$846,683	\$884,266	\$922,427	\$963,470
Existing Debt Service	31,621	31,377	31,377	31,377	31,377	31,377	31,377	31,377	31,377	31,377	31,377
New Debt Service	0	O	0	31,000	62,000	62,000	62,000	94,500	127,000	127,000	127,000
Rate Funded Capital	\$0	\$19,200	\$15,675	\$47,730	\$30,990	\$65,589	\$180,696	\$232,281	\$223,932	\$206,205	\$215,484
Total Expenses	\$582,662	\$734,842	\$777,789	\$874,754	\$922,818	\$936,287	\$1,115,718	\$1,204,841	\$1,266,575	\$1,287,009	\$1,337,331
Net Revenues	\$15,697	-\$23,947	\$42,901	\$12,102	\$36,430	\$102,785	690'8\$	-\$290	-\$14,999	\$13,550	\$14,698
Ending Reserves	\$295,964	\$272,016	\$314,918	\$327,019	\$363,450	\$466,235	\$469,304	\$469,014	\$454,015	\$467,566	\$482,264
Debt Coverage	1.50	0.85	2.87	1.96	1.72	2.80	2.97	2.84	2.32	2.39	2.45
*Reflects January rate implementation	ementation				i						
Capital Funding FY 22-23 F	FY 22-23	Y 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28	FY 28-29	FY 29-30	FY 30-31	FY 31-32	FY 32-33
Capital Revenues								. •			
Use of Debt Proceeds				\$400,000	\$500,000			\$650,000	\$300,000		
Rate Funded Capital	\$0	\$19,200	\$15,675	\$47,730	\$30,990	\$65,589	\$180,696	\$232,281	\$223,932	\$206,205	\$215,484
Total Capital Revenue	\$0	\$19,200	\$15,675	\$447,730	\$530,990	\$65,589	\$180,696	\$882,281	\$523,932	\$206,205	\$215,484
Total Capital Expenditu	95	\$19,200	\$15,675	\$447,730	\$530,990	\$65,589	\$180,696	\$882,281	\$523,932	\$206,205	\$215,484

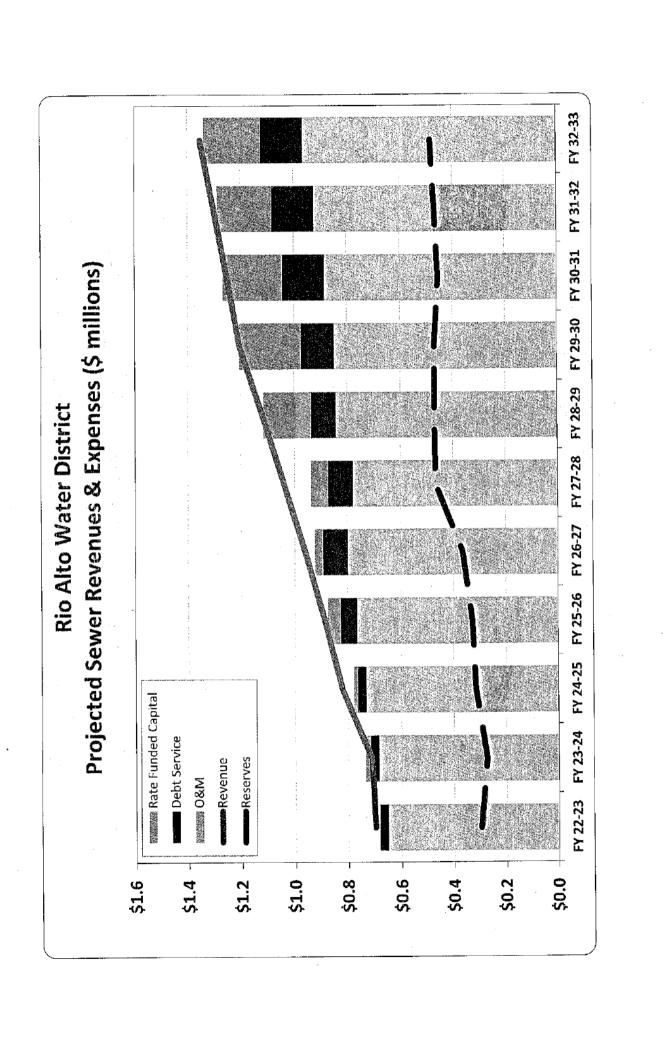


Table 6 Rio Alto WD Sewer Rate Study Meter Equivalent Units

	Quantity	Quantity	EDG	Total EDUs
Single Family Resid.	Customers	Customers 862 1.00 862.00	1.00	862.00
1/2 Single Fam Resid.	Customers	⊣	0.50	0.50
Triplex Sewer	Customers	⊣	3.00	3.00
Duplex Sewer	Customers	12	2.00	24.00
Sewer Extension	Customers	15	1.00	15.00
Low Pressure	Customers	18	1.00	18.00
Low Pressure Duplex	Customers	2	2.00	4.00
Commercial	Customers	2	4.50	9.00
Commercial	700	3,782	n/a	
		•		

Total

\* Customer data as of June 2023 provided by staff

935.5

Table 7 Rio Alto WD

Sewer Rate Study Cost Allocation

Wastewater						Projected				
Flows and	# of Sewer	# of Sewer	Est. Mo Flow	Projected Water	Flow	Flow	4	(mg/l) <sup>9</sup>	Loadings (lbs)	(sql) si
Loadings	Loadings Customers	EDUs <sup>1</sup>	CCF Per EDU <sup>2</sup>	Use CCF <sup>3</sup>	Factor <sup>4</sup>	CCF	800,	TSS	ВОО	TSS
Residential	911	927	7.00	N/A		77,826	220	220	106,906	106,906
Commercial	2	Ø	35.00	3,782	20%	756	200	200	944	944
Total						78,582			107,850	107,850

<sup>&</sup>lt;sup>1</sup> "EDU" stands for equivalent dwelling unit

<sup>&</sup>lt;sup>2</sup> Flow estimate based on average winter use

 $<sup>^{\</sup>rm 3}$  "CCF" stands for hundred cubic feet

<sup>&</sup>lt;sup>4</sup> Flow factor based on estimated flow returning to sewer

<sup>5 &</sup>quot;MG" stands for 1,000 gallons

<sup>&</sup>lt;sup>6</sup> "GPD" stands for gallons per day

 $<sup>^{7}</sup>$  "BOD" stands for biochemical oxygen demand

<sup>8 &</sup>quot;TSS" stands for total suspended solids

<sup>&</sup>lt;sup>9</sup> State Water Resource Control Board (SWRCB) Guidelines for Wastewater Agencies

Table 8
Rio Alto WD
Sewer Rate Study
Low Pressure Cost Allocation

## Estimated Cost for Annual Low Pressure Customer Flushing

Cost Item	Amount
Labor- 3 days 3 employees	
35.37 x 1.5.24 hours	\$1,273.20
\$40.70 x 1.5 x 24 hours	\$1,465.20
\$25.95 x 1.5 x 24 hours	\$934.00
Costs-	
Backflow annual testing	\$60.00
Backflow Device Cost (1,500) deprec 5 yrs	\$300.00
Fire Hoses Cost (410) deprec. 5 yrs	\$82.00
Annual additional cost to flush LPSS lines:	\$4,114.40
System wide benefft	30%
Total LPSS allocation	\$2,880.08

Table 9
Rio Alto WD
Sewer Rate Study
Functional Allocation

Projected 5-Year Average

		Offsetting	Offsetting Allocation				
Functional Allocation	Amount	Revenue	Amount	Flow	BOD	TSS	Total
Administration	\$468,541	\$13,200	\$455,341				%0
Collection System	\$119,920	\$0	\$119,920	100%			100%
Treatment	\$191,330	\$0	\$191,330	20%	40%	40%	100%
Debt Service	\$62,377	\$0	\$62,377	20%	40%	40%	100%
Capital	\$35,837	\$9,984	\$25,853	33%	33%	33%	100%
Functional Allocation \$	\$878,005	\$23,184	\$854,821	\$179,279	\$110,101	\$110,101 \$110,101 \$399,480	\$399,480
Functional Allocation %				44.88%	27.56%	27.56%	100%
FY 22/23 Revenue Requirement	ent			\$226,120	\$138,856	\$138,856 \$138,856 \$503,832	\$503,832
LPSS Allocation	,			-\$2,880			
Final Revenue Requirement				\$223,240	\$138,856	\$138,856 \$503,832	\$503,832

Table 10 Rio Alto WD Sewer Rate Study Revenue Requirements

Allocation Units	Flow	BOD	TSS	
Unit of Measure	#	DG3	CCF	
Allocation Units	78,582	107,850	107,850	
Revenue Requirement	\$223,240	\$138,856	\$138,856	
Unit Cost (\$/Unit)	\$2.84	\$1.29	\$1.29	
CC.	Flow	800	TSS	Totai
Units				
Residential	77,826	106,906	106,906	
Commercial	756	944	944	
Revenue Requirement	;			
Residential	\$221,091	\$137,640	\$137,640	\$496,371
Commercial	\$2,149	\$1,216	\$1,216	\$4,581

Table 11 Rio Alto WD Sewer Rate Study Residential Rate Derivation

Unit Cost Calculation Total EDUs	System 926.50	System Low Pressure 926.50 22.00
Revenue Requirement 5 per EDU	\$496,370.98 \$535.75	\$3,151.22 \$143.24
Bi-Monthly \$ per EDU	\$89.29	\$23.87

Bi-Monthly Residential Rate		Sewer		At FY 22-23	At FY 23-24
Derivation	EDUs	System Low Pressure	sure	Revenue	Revenue
Single Family Resid.	1.00	\$89.29		\$89.29	\$102.68
1/2 single Fam Resid.	0.50	\$44.65		\$44.65	\$51.34
TriPlex sewer	3.00	\$267.89		\$267.89	\$308.08
Duplex Sewer	2.00	\$178.59		\$178.59	\$205.38
Sewer Extention	1.00	\$89.29		\$89.29	\$102.68
Low Pressure	1.00	\$89.29 \$2	\$23.87	\$113.16	\$130.14
Low Pressure Duplex	2.00	\$178.58 \$4	\$47.75	\$226.33	\$260.28

Table 12 Rio Alto WD

Sewer Rate Study

Commercial Rate Derivation

Commercial Rate Derivation	Fixed	Volumetric
FY 22/23 Revenue Requirement	\$2,431.98	\$2,148.57
Units	2.00	3,781.58
\$ per Unit	\$1,215.99	\$0.57
Bi-Monthly \$ per Customer	\$202.66	
Bi-Monthly FY 23/24 Rates	\$233.06	\$0.65