# Western Municipal Water District

## Riverside Service Area and Rainbow Service Area Water Cost of Service Study Appendix

Fiscal Year 2023-24 Cost of Service Tables
June 2, 2021 Version

WESTERN MUNICIPAL WATER DISTRICT
Securing your water supply

This document serves as an appendix to the Riverside Service Area and Rainbow Service Area Water Cost of Service Study Report (Report). The reader may notice that table headings in this appendix may numerically skip ahead. This appendix is not meant as a stand-alone document, and therefore the table numbers correspond directly to the Report. The summary tables with Fiscal Year (FY) 2022 – FY 2025 information are omitted from this appendix. Only those tables corresponding to unique FY 2023-24 (FY 2024) rate analysis are presented.

# RIVERSIDE POTABLE TABLES

## Table 4-10: FY 2024 O&M Allocation ($)

| Functions | FY 2024 Budget | Water Supply | Delivery | Max Day | Max Hour | Efficiency | Elevation | Billing & CS | Meters & Service | RTS | Public Fire | General | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Customer Accounts | $1,229,601 | $0 | $0 | $0 | $0 | $0 | $0 | $1,229,601 | $0 | $0 | $0 | $0 | $1,229,601 |
| General | $6,295,340 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $6,295,340 | $6,295,340 |
| Gravity Line Allocation | $57,564 | $0 | $25,930 | $12,706 | $18,929 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $57,564 |
| MWD Capacity Charge | $385,114 | $0 | $173,475 | $85,003 | $126,637 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $385,114 |
| Purchased Power | $2,033,021 | $0 | $0 | $0 | $0 | $0 | $2,033,021 | $0 | $0 | $0 | $0 | $0 | $2,033,021 |
| Purchased Water | $23,269,561 | $23,269,561 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $23,269,561 |
| Replacement Reserve & Debt Svc | $3,368,375 | $0 | $1,459,798 | $715,301 | $740,697 | $0 | $0 | $0 | $287,826 | $0 | $49,616 | $115,139 | $3,368,375 |
| RTS | $719,499 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $719,499 | $0 | $0 | $719,499 |
| Source of Supply | $49,218 | $0 | $22,170 | $10,863 | $16,184 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $49,218 |
| Transmission & Distribution | $10,295,245 | $0 | $4,637,498 | $2,272,374 | $3,385,373 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $10,295,245 |
| Treatment | $244,038 | $0 | $109,927 | $53,864 | $80,247 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $244,038 |
| Water Efficiency | $442,330 | $0 | $0 | $0 | $0 | $442,330 | $0 | $0 | $0 | $0 | $0 | $0 | $442,330 |
| Water Pumping | $2,229,621 | $0 | $1,004,334 | $492,124 | $733,164 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $2,229,621 |
| **Total** | **$50,618,527** | $23,269,561 | $7,433,131 | $3,642,234 | $5,101,230 | $442,330 | $2,033,021 | $1,229,601 | $287,826 | $719,499 | $49,616 | $6,410,479 | $50,618,527 |
| ***O&M Allocation %*** | ***100.00%*** | ***45.97%*** | ***14.68%*** | ***7.20%*** | ***10.08%*** | ***0.87%*** | ***4.02%*** | ***2.43%*** | ***0.57%*** | ***1.42%*** | ***0.10%*** | ***12.66%*** | ***100%*** |

## Table 4-11: Other Available Revenues

| Revenue Source | FY 2024 Revenue ($) | Applicable Cost Component |
|---|---|---|
| Interest Income | $43,000 | General |
| Delinquent Penalties | $430,500 | General |
| Fixed System Charge - Wholesale | $7,772 | General |
| New Service Set Up | $30,700 | Billing & CS |
| Meter Repair | $25,000 | Meters & Service |
| **Sub-Total** | $536,972 | |
| **Potable Property Tax** | $8,091,991 | Revenue Offset |
| **Total** | **$8,628,963** | |

## Table 4-12: Adjusted Cost Components

| Cost Component | Gross Revenue Requirement A | Less Offset B | Net Revenue Requirement C = A + B |
|---|---|---|---|
| General | $6,410,479 | ($481,272) | $5,929,207 |
| Billing & CS | $1,229,601 | ($30,700) | $1,198,901 |
| Meters & Service | $287,826 | ($25,000) | $262,826 |
| **Total** | | ($536,972) | |

## Table 4-13: General Cost Reallocation

| Line No. | Cost Component | FY 2024 Revenue Requirements A | Applicable Cost B | Allocation % C = B ÷ B13 | General Reallocation D = A11 x C | Net Revenue Requirements E = A + D |
|---|---|---|---|---|---|---|
| 1 | Water Supply | $23,269,561 | N/A | | | $23,269,561 |
| 2 | Delivery | $7,433,131 | $7,433,131 | 42.1% | $2,498,683 | $9,931,814 |
| 3 | Max Day | $3,642,234 | $3,642,234 | 20.6% | $1,224,355 | $4,866,589 |
| 4 | Max Hour | $5,101,230 | $5,101,230 | 28.9% | $1,714,803 | $6,816,033 |
| 5 | Efficiency | $442,330 | N/A | | | $442,330 |
| 6 | Elevation | $2,033,021 | N/A | | | $2,033,021 |
| 7 | Billing & CS | $1,198,901 | $1,198,901 | 6.8% | $403,016 | $1,601,917 |
| 8 | Meters & Service | $262,826 | $262,826 | 1.5% | $88,350 | $351,176 |
| 9 | RTS | $719,499 | N/A | | | $719,499 |
| 10 | Public Fire | $49,616 | N/A | | | $49,616 |
| 11 | General | $5,929,207 | N/A | | ($5,929,207) | $0 |
| 12 | Revenue Offset | ($8,091,991) | N/A | | | ($8,091,991) |
| 13 | **Total** | **$41,989,564** | **$17,638,322** | **100.0%** | **$0** | **$41,989,564** |

## Table 4-14: Fire Flow Demand

| Line No. | Description | Connection Size (inches) A | Fire Demand Factor B = A^2.63 | # of Connections C | Fire Demand Units D = B x C | % of Total E = D / D16 |
|---|---|---|---|---|---|---|
| 1 | **Public Hydrants** | | | | | |
| 2 | 2-inch | 2.00 | 6.19 | 3 | 19 | |
| 3 | 4-inch | 4.00 | 38.32 | 71 | 2,721 | |
| 4 | 6-inch | 6.00 | 111.31 | 3,511 | 390,809 | |
| 5 | 8-inch | 8.00 | 237.21 | 88 | 20,874 | |
| 6 | **Total Public** | | | **3,673** | **414,423** | **84%** |
| 7 | | | | | | |
| 8 | **Private Fire** | | | | | |
| 9 | 3-inch | 3.00 | 17.98 | 1 | 18 | |
| 10 | 4-inch | 4.00 | 38.32 | 46 | 1,763 | |
| 11 | 6-inch | 6.00 | 111.31 | 53 | 5,899 | |
| 12 | 8-inch | 8.00 | 237.21 | 67 | 15,893 | |
| 13 | 10-inch | 10.00 | 426.58 | 118 | 50,336 | |
| 14 | 12-inch | 12.00 | 689.04 | 8 | 5,512 | |
| 15 | **Total Private** | | | **293** | **79,422** | **16%** |
| 16 | **Total** | | | | **493,845** | **100%** |

## Table 4-15: Fire Capacity Costs

| Line No. | Fire Capacity Costs | Units<br>A | % Fire Capacity<br>B | Max Day<br>C | Max Hour<br>D | Total<br>E = C + D |
|---|---|---|---|---|---|---|
| 1 | Allocated Costs | | | $3,642,234 | $5,101,230 | |
| 2 | Extra Capacity Demand | hcf / day | | $12,397 | $18,469 | |
| 3 | Unit Cost of Service | per hcf | | $294 | $276 | |
| 4 | | | | | | |
| 5 | Fire Capacity Demand | hcf | | 401 | 4,412 | |
| 6 | Fire Capacity Costs | | | 117,836 | 1,218,573 | **$1,336,409** |
| 7 | Public Fire Protection | | 84% | 98,885 | 1,022,598 | $1,121,483 |
| 8 | Private Fire Protection | | 16% | 18,951 | 195,975 | $214,926 |

## Table 4-16: Reallocation of Public Fire Protection

| Line No. | Cost Components | FY 2024 Requirements<br>A | Less Public Fire Capacity Costs<br>B | Subtotal<br>C = A + B |
|---|---|---|---|---|
| 1 | Water Supply | $23,269,561 | | $23,269,561 |
| 2 | Delivery | $9,931,814 | | $9,931,814 |
| 3 | Max Day | $4,866,589 | ($98,885) | $4,767,704 |
| 4 | Max Hour | $6,816,033 | ($1,022,598) | $5,793,435 |
| 5 | Efficiency | $442,330 | | $442,330 |
| 6 | Elevation | $2,033,021 | | $2,033,021 |
| 7 | Billing & CS | $1,601,917 | | $1,601,917 |
| 8 | Meters & Service | $351,176 | | $351,176 |
| 9 | RTS | $719,499 | | $719,499 |
| 10 | Public Fire | $49,616 | ($49,616) | $0 |
| 11 | Revenue Offset | ($8,091,991) | $1,171,099 | ($6,920,892) |
| 12 | **Total** | **$41,989,564** | **$0** | **$41,989,564** |

## Table 4-17: Reallocation of Private Fire

| Line No. | Cost Components | FY 2024 Requirements A | Less Private Fire Capacity Costs B | Subtotal C = A + B |
|---|---|---|---|---|
| 1 | Water Supply | $23,269,561 | | $23,269,561 |
| 2 | Delivery | $9,931,814 | | $9,931,814 |
| 3 | Max Day | $4,767,704 | ($18,951) | $4,748,753 |
| 4 | Max Hour | $5,793,435 | ($195,975) | $5,597,460 |
| 5 | Efficiency | $442,330 | | $442,330 |
| 6 | Elevation | $2,033,021 | | $2,033,021 |
| 7 | Billing & CS | $1,601,917 | | $1,601,917 |
| 8 | Meters & Service | $351,176 | | $351,176 |
| 9 | RTS | $719,499 | | $719,499 |
| 10 | Revenue Offset | ($6,920,892) | | ($6,920,892) |
| 11 | Private Fire | | $214,926 | $214,926 |
| 12 | **Total** | **$41,989,564** | **$0** | **$41,989,564** |

## Table 4-18: Summary of Revenue Requirements by Cost Components

| Cost Components | FY 2024 Revenue Requirements | Variable | Fixed |
|---|---|---|---|
| Water Supply | $23,269,561 | ✓ | |
| Delivery | $9,931,814 | ✓ | |
| Extra Capacity | $10,346,213 | | ✓ |
| Efficiency | $442,330 | ✓ | |
| Elevation | $2,033,021 | ✓ | |
| Billing & CS | $1,601,917 | | ✓ |
| Meters & Service | $351,176 | | ✓ |
| RTS | $719,499 | | ✓ |
| Revenue Offset | ($6,920,892) | ✓ | |
| Private Fire | $214,926 | | ✓ |
| **Total** | **$41,989,564** | **$28,755,833** | **$13,233,731** |
| ***Variable / Fixed Split (%)*** | | ***68%*** | ***32%*** |

## Table 4-19: Billing & Customer Service Costs Component – Units of Service

| Meter Size | Number of Accounts<br>A | # of Billing Periods<br>B | Units of Service (# of Bills)<br>C = A x B |
|---|---|---|---|
| **5/8"** | 15 | 12 | 180 |
| **3/4"** | 16,832 | 12 | 201,984 |
| **1"** | 4,413 | 12 | 52,956 |
| **1.5"** | 320 | 12 | 3,840 |
| **2"** | 326 | 12 | 3,912 |
| **3"** | 33 | 12 | 396 |
| **4"** | 21 | 12 | 252 |
| **6"** | 6 | 12 | 72 |
| **8"** | 2 | 12 | 24 |
| **10"** | 1 | 12 | 12 |
| **12"** | 0 | 12 | 0 |
| **Total** | | | **263,628** |

Note: The total number of bills in Table 4-19 includes private fire accounts

## Table 4-20: Billing & Customer Service Costs Component – Unit Rate

| Billing and Customer Service Component | |
|---|---|
| Billing & CS Revenue Requirements | $1,601,917 |
| ÷ # of Bills | 263,628 |
| **Monthly Unit Rate** | **$6.076** |

## Table 4-21: Meters and Service Costs Component – Units of Service

| Line No. | Meter Size | Meter Replacement Cost A | Meter Cost Ratio B = A ÷ A2 | # of Bills C | Units of Service (EMUs) D = B x C |
|---|---|---|---|---|---|
| 1 | **5/8"** | $ 296.31 | 0.94 | 180 | 169 |
| 2 | **3/4"** | $ 316.30 | 1.00 | 201,984 | 201,984 |
| 3 | **1"** | $ 382.89 | 1.21 | 52,956 | 64,105 |
| 4 | **1.5"** | $ 610.40 | 1.93 | 3,840 | 7,410 |
| 5 | **2"** | $ 832.37 | 2.63 | 3,912 | 10,295 |
| 6 | **3"** | $ 1,609.25 | 5.09 | 396 | 2,015 |
| 7 | **4"** | $ 1,809.01 | 5.72 | 252 | 1,441 |
| 8 | **6"** | $ 3,206.28 | 10.14 | 72 | 730 |
| 9 | **8"** | $ 4,656.83 | 14.72 | 24 | 353 |
| 10 | **10"** | $ 7,177.24 | 22.69 | 12 | 272 |
| 11 | **12"** | $ 9,813.73 | 31.03 | 0 | 0 |
| 12 | **Total** | | | **263,628** | **288,774** |

Note: The total number of bills in Table 4-21 includes private fire accounts

## Table 4-22: Meters & Service Costs Component – Unit Rate

| Meter & Service Component | |
|---|---|
| Meters & Service Revenue Requirements | $351,176 |
| ÷ Meter Cost EMUs | 288,774 |
| **Monthly Unit Rate** | **$1.216** |

## Table 4-23: Extra Capacity Costs Component – Units of Service

| Line No. | Meter Size | Meter Type | AWWA Standards (gpm) A | AWWA Ratio B = A ÷ A2 | # of Bills w/o Private Fire C | Units of Service (EMUs) D = B x C |
|---|---|---|---|---|---|---|
| 1 | **5/8"** | C713-15 Fluidic-Oscillator Type | 20 | 1 | 180 | 120 |
| 2 | **3/4"** | C701-12 Turbine Type, Class I, Vertical Shaft Type | 30 | 1 | 198,468 | 198,468 |
| 3 | **1"** | C701-12 Turbine Type, Class I, Vertical Shaft Type | 50 | 2 | 52,956 | 88,260 |
| 4 | **1.5"** | C701-12 Turbine Type, Class I, Vertical Shaft Type | 100 | 3 | 3,840 | 12,800 |
| 5 | **2"** | C704-15 Propeller Type | 120 | 4 | 3,912 | 15,648 |
| 6 | **3"** | C704-15 Propeller Type | 300 | 10 | 396 | 3,960 |
| 7 | **4"** | C704-15 Propeller Type | 600 | 20 | 252 | 5,040 |
| 8 | **6"** | C704-15 Propeller Type | 1,350 | 45 | 72 | 3,240 |
| 9 | **8"** | C704-15 Propeller Type | 1,800 | 60 | 24 | 1,440 |
| 10 | **10"** | C704-15 Propeller Type | 2,400 | 80 | 12 | 960 |
| 11 | **12"** | C704-15 Propeller Type | 3,375 | 113 | 0 | 0 |
| 12 | **Total** | | | | **260,112** | **329,936** |

Note: The total number of bills in Table 4-23 excludes private fire accounts

## Table 4-24: Extra Capacity Costs Component – Unit Rate

| Peaking/Capacity Component | |
|---|---|
| Extra Capacity Revenue Requirement | $10,346,213 |
| ÷ Capacity EMUs | 329,936 |
| **Monthly Unit Rate** | **$31.358** |

## Table 4-25: Units of Service for RTS

| Line No. | Meter Size | AWWA 3/4" Ratio A | # of Bills w/ Private Fire B | Units of Service (EMUs) C = A x B |
|---|---|---|---|---|
| 1 | **5/8"** | 0.67 | 180 | 120 |
| 2 | **3/4"** | 1.00 | 201,984 | 201,984 |
| 3 | **1"** | 1.67 | 52,956 | 88,260 |
| 4 | **1.5"** | 3.33 | 3,840 | 12,800 |
| 5 | **2"** | 4.00 | 3,912 | 15,648 |
| 6 | **3"** | 10.00 | 396 | 3,960 |
| 7 | **4"** | 20.00 | 252 | 5,040 |
| 8 | **6"** | 45.00 | 72 | 3,240 |
| 9 | **8"** | 60.00 | 24 | 1,440 |
| 10 | **10"** | 80.00 | 12 | 960 |
| 11 | **12"** | 112.50 | 0 | 0 |
| 12 | **Total** | | **263,628** | **333,452** |

Note: The total number of bills in Table 4-25 includes private fire accounts

## Table 4-26: RTS Component – Unit Rate

| RTS Component | |
|---|---|
| RTS Revenue Requirement | $719,499 |
| ÷ Capacity EMUs (w/Private Fire) | 333,452 |
| **Monthly Unit Rate** | **$2.158** |

## Table 4-27: Private Fire Extra Capacity Charges

| Line No. | Private Fire Service Charges | Peaking |
|---|---|---|
| 1 | Revenue Requirements | $214,926 |
| 2 | Fire Demand Units | 79,422 |
| 3 | Annual Fire Demand Units ([2] x 12) | 953,064 |
| 4 | **Monthly Unit Cost of Service ([1] / [3])** | **$0.226** |

## Table 4-29: Water Supply Sources – Quantity and Effective Rate

| Water Source | Available for Purchase (AF) | Available Supply (AF) After 3.5% Water Loss | Unit Cost ($/AF) | Available Supply (hcf) | Effective Cost ($/AF) | Effective Unit Cost ($/hcf) |
|---|---|---|---|---|---|---|
| | A | B = A x (1-0.035) | C | D = B * 435.6 | E = (A*C) ÷ B | F = E ÷ 435.6 |
| Meeks & Daley (M&D) | 227 | 219 | $669.03 | 95,420 | $693.30 | $1.59 |
| Elsinore Valley MWD | 4,680 | 4,516 | $653.00 | 1,967,257 | $676.68 | $1.55 |
| City of Riverside | 2,301 | 2,220 | $907.03 | 967,235 | $939.93 | $2.16 |
| MWD Tier 1 | 14,760 | 14,243 | $1,217.66 | 6,204,422 | $1,261.82 | $2.90 |

## Table 4-30: Allocation of Water Supplies (HCF) for Unit Rate ($/HCF)

| Line No. | Tier/Customer Class | Projected Sales (HCF) | Meeks & Daley | Elsinore | City of Riverside | MWD Tier 1 | Unit Rate ($/HCF) |
|---|---|---|---|---|---|---|---|
| 1 | Tier 1 - Essential Use | 2,807,968 | 90,452 | 1,864,817 | 852,700 | | $1.738 |
| 2 | Tier 2 - Efficient Use | 5,176,355 | | | 64,169 | 5,112,186 | $2.888 |
| 3 | Tier 3 - Inefficient Use | 437,520 | | | | 437,520 | $2.897 |
| 4 | Tier 4 - Unsustainable Use | 331,636 | | | | 331,636 | $2.897 |
| 5 | Agriculture | 264,389 | 2,732 | 56,325 | 27,693 | 177,639 | $2.520 |
| 6 | March East | 216,466 | 2,237 | 46,115 | 22,673 | 145,441 | $2.520 |
| 7 | **Total** | **9,234,334** | **95,420** | **1,967,257** | **967,235** | **6,204,422** | |
| 8 | **Total Available Supply** | **9,234,334** | **95,420** | **1,967,257** | **967,235** | **6,204,422** | |

## Table 4-31: Projected Water Supply Costs and Unit Rates

| Tier/Customer Class | Projected Sales (HCF) | Unit Rate ($/HCF) | Revenue Requirements |
|---|---|---|---|
| | A | B | C = A x B |
| Tier 1 - Essential Use | 2,807,968 | $1.738 | $4,880,248 |
| Tier 2 - Efficient Use | 5,176,355 | $2.888 | $14,949,313 |
| Tier 3 - Inefficient Use | 437,520 | $2.897 | $1,267,495 |
| Tier 4 - Unsustainable Use | 331,636 | $2.897 | $960,749 |
| Agriculture | 264,389 | $2.520 | $666,260 |
| March East | 216,466 | $2.520 | $545,494 |
| **Total** | **9,234,334** | | **$23,269,561** |

## Table 4-32: Delivery Component - Unit Rate

| Delivery Component | |
|---|---|
| Delivery Revenue Requirement | $9,931,814 |
| ÷ Projected Sales (HCF) | 9,234,334 |
| **Monthly Unit Rate** | **$1.076** |

## Table 4-33: Efficiency Component – Unit Rates

| Tier/Customer Class | Projected Sales (HCF) | Unit Tier Rate ($/HCF) |
|---|---|---|
| Tier 1 - Essential Use | 2,807,968 | N/A |
| Tier 2 - Efficient Use | 5,176,355 | N/A |
| Tier 3 - Inefficient Use | 437,520 | $0.300 |
| Tier 4 - Unsustainable Use | 331,636 | $0.880 |
| Agriculture | 264,389 | $0.040 |
| March East | 216,466 | $0.040 |

## Table 4-34: Derivation of Revenue Offset Unit Cost

| Line No. | Tier/Customer Class | Projected Sales (HCF) | Allocation Factor | Equivalent Sales (HCF) | % Equivalent Sales | Revenue Offset Share | Unit Rate ($/HCF) |
|---|---|---|---|---|---|---|---|
| | | A | B | C = A x B | D = C ÷ C4 | E = C x E4 | F = E ÷ A |
| 1 | Tier 1 | 2,807,968 | 1.00 | 2,807,968 | 34.0% | ($2,353,698) | ($0.84) |
| 2 | Tier 2 | 5,176,355 | 1.00 | 5,176,355 | 62.7% | ($4,338,930) | ($0.84) |
| 3 | Agriculture | 264,389 | 1.03 | 272,321 | 3.3% | ($228,265) | ($0.86) |
| 4 | **Total** | **8,248,712** | | **8,256,644** | **100%** | **($6,920,892)** | |

## Table 4-35: Pumping Charge – Unit Rates ($/HCF)

| Line No. | Power Zone | Unit Rate |
|---|---|---|
| 1 | Power Zone 2 | $0.140 |
| 2 | Power Zone 3 | $0.181 |
| 3 | Power Zone 4 | $0.229 |
| 4 | Power Zone 5 | $0.686 |

## Table 4-36: FY 2024 Rates for Fixed System Charge ($/Meter Size)

| Meter Size | Meter Cost 3/4" Ratio | AWWA 3/4" Ratio | Billing & CS | Meters & Service | Extra Capacity | Total Fixed System Charge |
|---|---|---|---|---|---|---|
| | A | B | C | D = $1.22 x A | E = $31.36 x B | F = C + D + E |
| **5/8"** | 0.94 | 0.67 | $6.08 | $1.14 | $20.91 | $28.13 |
| **3/4"** | 1.00 | 1.00 | $6.08 | $1.22 | $31.36 | $38.65 |
| **1"** | 1.21 | 1.67 | $6.08 | $1.47 | $52.26 | $59.81 |
| **1.5"** | 1.93 | 3.33 | $6.08 | $2.35 | $104.53 | $112.95 |
| **2"** | 2.63 | 4.00 | $6.08 | $3.20 | $125.43 | $134.71 |
| **3"** | 5.09 | 10.00 | $6.08 | $6.19 | $313.58 | $325.85 |
| **4"** | 5.72 | 20.00 | $6.08 | $6.96 | $627.16 | $640.20 |
| **6"** | 10.14 | 45.00 | $6.08 | $12.33 | $1,411.12 | $1,429.53 |
| **8"** | 14.72 | 60.00 | $6.08 | $17.90 | $1,881.49 | $1,905.47 |
| **10"** | 22.69 | 80.00 | $6.08 | $27.60 | $2,508.66 | $2,542.33 |
| **12"** | 31.03 | 112.50 | $6.08 | $37.74 | $3,527.80 | $3,571.62 |

## Table 4-37: Final FY 2024 Fixed System Charge ($/Meter Size)

| Meter Size | Preliminary FY 2024 FSC | Property Tax Revenue Offset | Final FY 2024 FSC |
|---|---|---|---|
| | A | B | C = A + B |
| **5/8"** | $28.13 | $0.00 | $28.13 |
| **3/4"** | $38.65 | $0.00 | $38.65 |
| **1"** | $59.81 | $0.00 | $59.81 |
| **1.5"** | $112.95 | $0.00 | $112.95 |
| **2"** | $134.71 | $0.00 | $134.71 |
| **3"** | $325.85 | $0.00 | $325.85 |
| **4"** | $640.20 | $0.00 | $640.20 |
| **6"** | $1,429.53 | $0.01 | $1,429.54 |
| **8"** | $1,905.47 | ($179.83) | $1,725.64 |
| **10"** | $2,542.33 | ($445.52) | $2,096.81 |
| **12"** | $3,571.62 | ($998.32) | $2,573.30 |

## Table 4-40: FY 2024 Rates for Private Fire Fixed System Charges ($/Meter Size)

| Meter Size | No of Meters | Fire Demand Ratio | Billing & CS | Meter Service | Peaking | Monthly FSC |
|---|---|---|---|---|---|---|
| | A | B | C | D | E = $0.226 x B | F = C + D + E |
| **3"** | 1 | 17.98 | $6.08 | $1.22 | $4.06 | $11.36 |
| **4"** | 46 | 38.32 | $6.08 | $1.22 | $8.66 | $15.96 |
| **6"** | 53 | 111.31 | $6.08 | $1.22 | $25.16 | $32.46 |
| **8"** | 67 | 237.21 | $6.08 | $1.22 | $53.61 | $60.91 |
| **10"** | 118 | 426.58 | $6.08 | $1.22 | $96.41 | $103.71 |
| **12"** | 8 | 689.04 | $6.08 | $1.22 | $155.72 | $163.02 |

## Table 4-42: Proposed FY 2024 Commodity Charge Rates ($/HCF)

| Customer Class/Service Area | Water Supply | Delivery | Efficiency | Revenue Offset | Proposed Commodity Rate |
|---|---|---|---|---|---|
| | A | B | C | D | E = A + B + C + D |
| **Water Budget Rates** | | | | | |
| Tier 1 - Essential Use | $1.738 | $1.076 | $0.000 | ($0.838) | $1.976 |
| Tier 2 - Efficient Use | $2.888 | $1.076 | $0.000 | ($0.838) | $3.126 |
| Tier 3 - Inefficient Use | $2.897 | $1.076 | $0.300 | $0.000 | $4.273 |
| Tier 4 - Unsustainable Use | $2.897 | $1.076 | $0.880 | $0.000 | $4.853 |
| **Uniform Rates** | | | | | |
| Agriculture | $2.520 | $1.076 | $0.040 | ($0.863) | $2.773 |
| March East | $2.520 | $1.076 | $0.040 | $0.000 | $3.636 |

# RIVERSIDE NON-POTABLE TABLES

### Table 5-2: Non-Potable Fixed System Charge Revenue Requirement FY 2024

| Meter Size | # of Meters | Riverside Proposed Fixed Charge | Proposed RTS Charge | Fixed Revenue Requirement | RTS Revenue Requirement |
|---|---|---|---|---|---|
| | A | B | C | D = A x B x 12 | E = A x C x 12 |
| **5/8"** | 0 | $28.13 | $1.44 | $0.00 | $0.00 |
| **3/4"** | 2 | $38.65 | $2.16 | $927.62 | $51.84 |
| **1"** | 15 | $59.81 | $3.60 | $10,766.12 | $648.00 |
| **1.5"** | 15 | $112.95 | $7.20 | $20,331.22 | $1,296.00 |
| **2"** | 97 | $134.71 | $8.64 | $156,800.19 | $10,056.96 |
| **3"** | 15 | $325.85 | $21.58 | $58,652.90 | $3,884.40 |
| **4"** | 10 | $640.20 | $43.16 | $76,823.77 | $5,179.20 |
| **6"** | 3 | $1,429.53 | $97.11 | $51,463.07 | $3,495.96 |
| **8"** | 3 | $1,905.47 | $129.48 | $68,597.05 | $4,661.28 |
| **10"** | 1 | $2,542.33 | $172.64 | $30,507.98 | $2,071.68 |
| **12"** | 4 | $3,571.62 | $242.78 | $171,437.66 | $11,653.44 |
| **Total** | **165** | | | **$646,308** | **$42,999** |

### Table 5-3: Total Non-Potable Fixed Revenue Requirement

| Total Fixed Revenue Requirement | |
|---|---|
| Fixed Revenue Requirement | $646,308 |
| RTS Revenue Requirement | $42,999 |
| **Total** | **$689,306** |

### Table 5-4: Non-Potable Functionalized Expenses

| Functionalized Expenses | ($) |
|---|---|
| Fixed Revenue Requirement | $689,306 |
| Variable Revenue Requirement | $4,990,833 |
| Purchased Power | $904,542 |
| Water Use Efficiency | $64,932 |
| **Total** | **$6,649,613** |

## Table 5-5: Allocation of Functionalized Costs to Cost Components

| Functionalized Costs | FY 2024 Budget | Base/Delivery | Fixed Charges | Efficiency | Elevation |
|---|---|---|---|---|---|
| Fixed Revenue Requirement | $689,306 | | $689,306 | | |
| Variable Revenue Requirement | $4,990,833 | $4,990,833 | | | |
| Purchased Power | $904,542 | | | | $904,542 |
| Water Use Efficiency | $64,932 | | | $64,932 | |
| Revenue Offset | ($969,352) | ($969,352) | | | |
| **Total** | **$5,680,261** | **$4,021,481** | **$689,306** | **$64,932** | **$904,542** |

## Table 5-6: Final FY 2024 Fixed System Charge ($/Meter Size)

| Meter Size | Preliminary FY 2024 FSC<br>A | Property Tax Revenue Offset<br>B | Final FY 2024 FSC<br>C = A + B |
|---|---|---|---|
| **5/8"** | $28.13 | $0.00 | $28.13 |
| **3/4"** | $38.65 | $0.00 | $38.65 |
| **1"** | $59.81 | $0.00 | $59.81 |
| **1.5"** | $112.95 | $0.00 | $112.95 |
| **2"** | $134.71 | $0.00 | $134.71 |
| **3"** | $325.85 | $0.00 | $325.85 |
| **4"** | $640.20 | $0.00 | $640.20 |
| **6"** | $1,429.53 | $0.01 | $1,429.54 |
| **8"** | $1,905.47 | ($179.83) | $1,725.64 |
| **10"** | $2,542.33 | ($445.52) | $2,096.81 |
| **12"** | $3,571.62 | ($998.32) | $2,573.30 |

## Table 5-7: Delivery Component – FY 2024 Unit Rate

| Base/Delivery Cost Component | |
|---|---|
| Variable Revenue Requirement | $4,990,833 |
| ÷ Projected Use | 1,623,300 |
| **Monthly Unit Rate** | **$3.074** |

## Table 5-8: Efficiency Component – FY 2024 Unit Rate

| Water Efficiency Cost Component | |
|---|---|
| Water Efficiency Costs | $64,932 |
| ÷ Projected Use | 1,623,300 |
| **Monthly Unit Rate** | **$0.040** |

## Table 5-9: Non-Potable Revenue Offset – FY 2024 Unit Rate

| Line No. | Customer Class | Projected Use (HCF) A | Allocation Factor B | Property Tax Allocation C | Property Tax Allocation D |
|---|---|---|---|---|---|
| 1 | Landscape | 864,000 | 0.41 | $394,328 | ($0.46) |
| 2 | Agriculture | 759,300 | 0.59 | $575,024 | ($0.76) |
| 3 | **Total** | **1,623,300** | | **$969,352** | |

## Table 5-12: Proposed FY 2024 Variable Commodity Charge Rates ($/HCF)

| Customer Class | Base / Delivery A | Efficiency B | Revenue Offset C | Total Commodity Rate D = A + B + C |
|---|---|---|---|---|
| Landscape | $3.074 | $0.040 | ($0.456) | **$2.658** |
| Agriculture | $3.074 | $0.040 | ($0.757) | **$2.357** |

# RAINBOW TABLES

### Table 6-2: FY 2024 Rainbow Fixed Revenue Requirement Derivation

| Meter Size | # of Meters | Proposed Fixed Charge | Proposed RTS Charge | Fixed Revenue Requirement | RTS Revenue Requirement |
|---|---|---|---|---|---|
| | A | B | C | D = A x B x 12 | E = A x C x 12 |
| **5/8"** | 0 | $28.13 | $1.44 | $0 | $0 |
| **3/4"** | 24 | $38.65 | $2.16 | $11,131 | $622 |
| **1"** | 13 | $59.81 | $3.60 | $9,331 | $562 |
| **1.5"** | 2 | $112.95 | $7.20 | $2,711 | $173 |
| **2"** | 1 | $134.71 | $8.64 | $1,616 | $104 |
| **Total** | | | | **$24,789** | **$1,460** |

### Table 6-3: FY 2024 Rainbow Total Fixed Revenue Requirement

| Total Fixed Revenue Requirement | |
|---|---|
| Fixed Revenue Requirement | $24,789 |
| RTS Revenue Requirement | $1,460 |
| **Total** | **$26,250** |

### Table 6-4: Rainbow Functionalized Costs

| Functionalized Expenses | ($) |
|---|---|
| Fixed Revenue Requirement | $26,250 |
| Variable Revenue Requirement | $187,818 |
| Purchased Power | $5,119 |
| **Total** | **$219,187** |

## Table 6-5: Allocation of Cost Components

| Functionalized Costs | FY 2024 Budget<br>A | Base / Delivery<br>B | Fixed Charges<br>C | Elevation<br>D |
|---|---|---|---|---|
| Fixed Revenue Requirement | $26,250 | | $26,250 | |
| Variable Revenue Requirement | $187,818 | $187,818 | | |
| Purchased Power | $5,119 | | | $5,119 |
| Revenue Offset | ($149,399) | ($149,399) | | |
| **Total** | **$69,788** | **$38,420** | **$26,250** | **$5,119** |

## Table 6-6: Delivery Component – FY 2024 Unit Rate

| Delivery Component | |
|---|---|
| Variable Revenue Requirement | $38,420 |
| ÷ Projected Sales (HCF) | 12,790 |
| **Monthly Unit Rate** | **$3.003** |

## Table 6-7: Pumping Charge – FY 2024 Unit Rate ($/HCF)

| Elevation Component | |
|---|---|
| Pumping Revenue Requirement | $5,119 |
| ÷ Projected Sales (HCF) | 12,790 |
| **Monthly Unit Rate** | **$0.400** |