



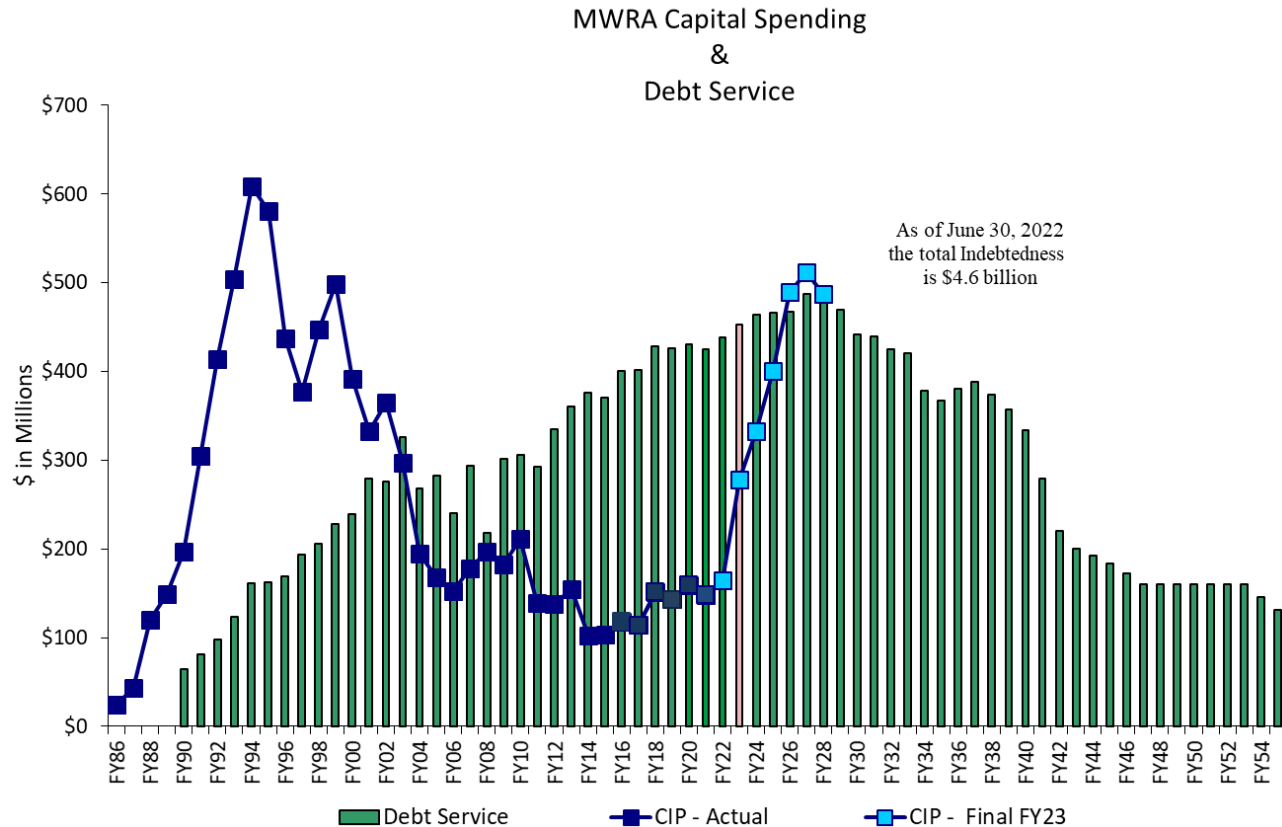
Capital Financing Overview

MWRA Advisory Board Finance Committee

November 2, 2022

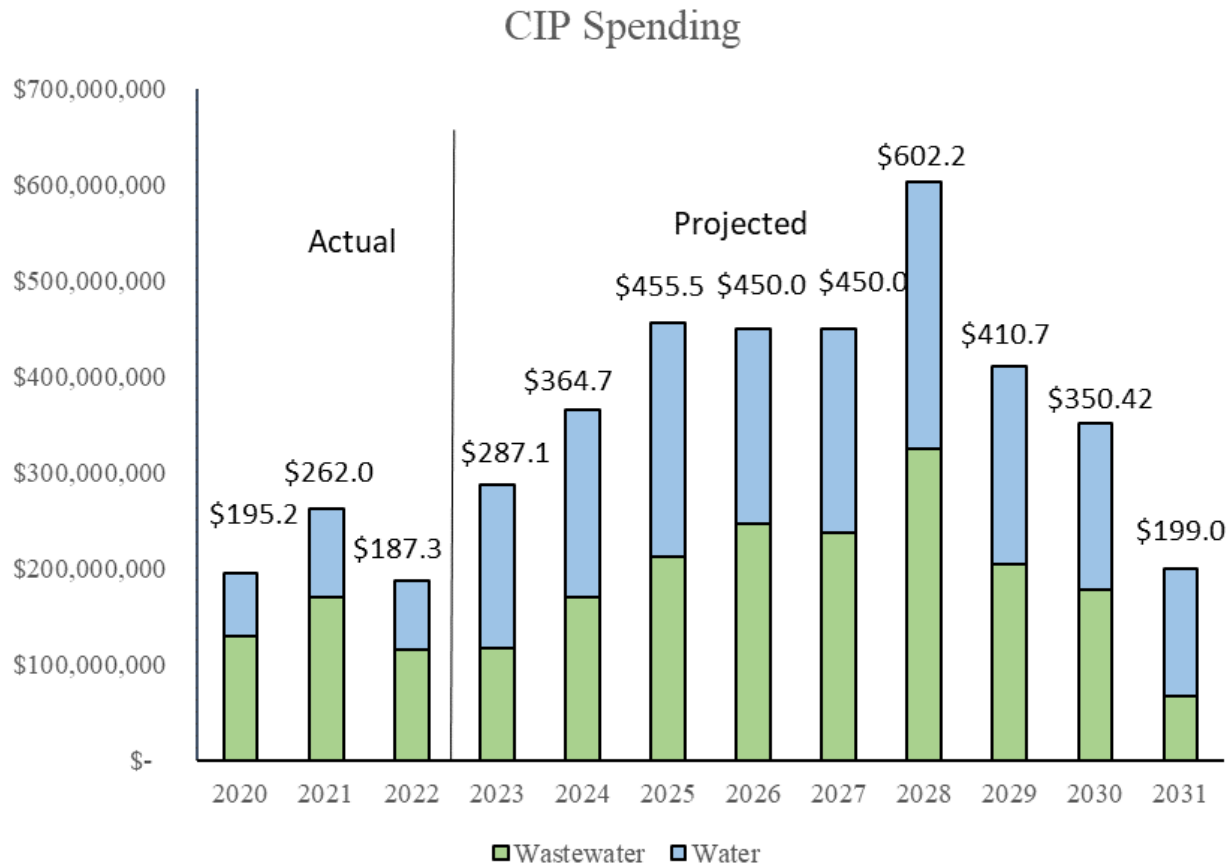


Debt Service and Capital Spending





Capital Improvement Program





Determining Borrowing Amount and Timing

- Review Actual and Projected Spending
- Borrowing split by utility

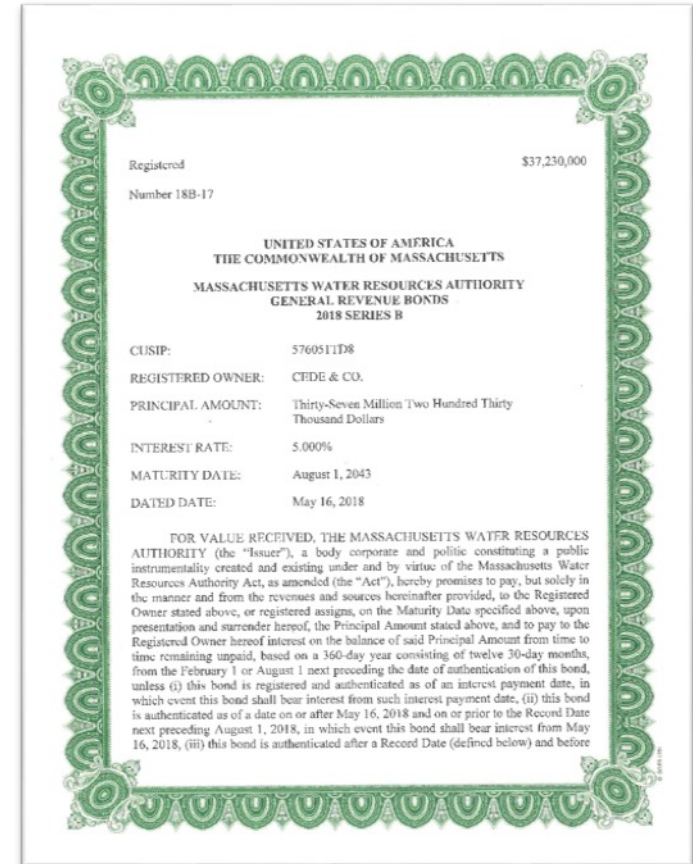
FY 23 Borrowing Needs Projections

| Utility | July | August | September | October | November | December | January | February | March | April | May | June |
|---------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|-----------------|-----------------|-----------------|-----------------|------------------|
| Sewer | \$ 55,815,569 | \$ 52,508,857 | \$ 43,946,347 | \$ 34,436,027 | \$ 25,756,266 | \$ 16,245,946 | \$ 3,053,426 | \$ (12,027,596) | \$ (25,220,116) | \$ (45,373,486) | \$ (68,208,154) | \$ (70,523,318) |
| Water | \$ 58,475,732 | \$ 51,485,457 | \$ 46,319,027 | \$ 38,475,747 | \$ 29,731,600 | \$ 21,888,320 | \$ 13,658,750 | \$ 3,444,754 | \$ (4,784,816) | \$ (17,397,246) | \$ (31,721,950) | \$ (43,972,586) |
| Total | \$ 114,291,301 | \$ 103,994,314 | \$ 90,265,374 | \$ 72,911,774 | \$ 55,487,866 | \$ 38,134,266 | \$ 16,712,176 | \$ (8,582,842) | \$ (30,004,932) | \$ (62,770,732) | \$ (99,930,104) | \$ (114,495,904) |



How Does MWRA Issue Bonds

- Board Approval
- Debt Issuance Team
 - Bond/Disclosure Counsel
 - Financial Advisor
 - Underwriter
- Credit Ratings





Debt Issuance

PRELIMINARY OFFICIAL STATEMENT DATED DECEMBER 1, 2021

NEW ISSUE – BOOK-ENTRY ONLY SYSTEM

See “Ratings” herein.

In the opinion of Bond Counsel, assuming the accuracy of certain representations and certifications, and continuing compliance with certain tax covenants, under existing statutes, regulations, rulings and court decisions, interest on the 2021 Series B Bonds is excludable from gross income for federal income tax purposes, and interest on the 2021 Series C Bonds is not an item of tax preference for the purpose of computing the alternative minimum tax imposed on individuals. Interest on the 2021 Series C Bonds is generally subject to inclusion in federal gross income of the Holders thereof. In the opinion of Bond Counsel, interest on the 2021 Bonds and any profit made on the sale thereof are exempt from Massachusetts personal income taxes, and the 2021 Bonds are exempt from Massachusetts personal property tax. See “Tax Matters” herein.



MASSACHUSETTS WATER RESOURCES AUTHORITY
\$[75,000,000]* General Revenue Bonds, 2021 Series B (Green Bonds)
\$[700,000,000]* General Revenue Refunding Bonds, 2021 Series C
(Federally Taxable) (Green Bonds)

Dated: Date of Initial Delivery

Due: As shown on the inside cover

The Massachusetts Water Resources Authority (the “Authority”) will issue its General Revenue Bonds, 2021 Series B (the “2021 Series B Bonds”) and its General Revenue Refunding Bonds, 2021 Series C (Federally Taxable) (Green Bonds) (the “2021 Series C Bonds”, and together with the 2021 Series B Bonds, the “2021 Bonds”) as fully registered bonds in the name of Cede & Co., as nominee for The Depository Trust Company (“DTC”), New York, New York. Purchases of the 2021 Bonds will be made in book-entry form only, in the denominations of \$5,000 or any integral multiple thereof, and no physical delivery of the 2021 Bonds will be made to purchasers. So long as Cede & Co. is the registered owner of the 2021 Bonds, principal and interest on the 2021 Bonds are payable to DTC by U.S. Bank National Association, as Trustee. See “The 2021 Bonds - Book-Entry-Only System.”

The 2021 Bonds will bear interest at the fixed rates and mature in the years and in the principal amounts set forth on the inside cover pages hereof. Interest on the 2021 Bonds will accrue from their date of delivery. Interest on the 2021 Bonds will be payable on February 1 and August 1 of each year, commencing February 1, 2022. The 2021 Bonds will be subject to redemption prior to maturity, as more fully described herein.

The 2021 Bonds will constitute general obligations of the Authority. In addition, the 2021 Bonds will be secured by a lien on and pledge of certain revenues and other moneys of the Authority, as described herein. Neither The Commonwealth of Massachusetts (the “Commonwealth”) nor any political subdivision thereof shall be obligated to pay the principal of, or premium, if any, or interest on any 2021 Bond, and neither the faith and credit nor the taxing power of the Commonwealth or any political subdivision thereof is pledged to such payment. The Authority has no taxing power.

The 2021 Bonds are offered when, as and if issued by the Authority and received by the Underwriters, subject to the approval of legality by Greenberg Traurig, LLP, Boston, Massachusetts, Bond Counsel, and certain other conditions. Certain legal matters will be passed upon for the Authority by its Disclosure Counsel, McCarter & English, LLP, Boston, Massachusetts, and for the Underwriters by their counsel, Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C., Boston, Massachusetts. Settlement of the issue is expected at DTC in New York, New York on or about December __, 2021.

December __, 2021

| | | | | |
|------------------------------------|-----------------|------------------------|------------------|--------------------------------|
| Citigroup | Barclays | BofA Securities | Jefferies | Morgan Stanley |
| Goldman Sachs & Co. LLC | | J.P. Morgan | | Ramirez & Co., Inc. |
| RBC Capital Markets | | | | UBS |

*Preliminary, subject to change.

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- The issuance of tax-exempt bonds is subject to oversight from:
 - Securities and Exchange Commission
 - Internal Revenue Service
 - Municipal Securities Rule Making Board.
- Disclosure documents are developed which provide information on MWRA’s finance, management and operations.
- Credit Rating Agencies receive an update on MWRA and assign a credit rating to the new bonds.



Debt Issuance

NEW ISSUE – BOOK-ENTRY ONLY SYSTEM

See “Ratings” herein.

In the opinion of Bond Counsel, assuming the accuracy of certain representations and certifications, and continuing compliance with certain tax covenants, under existing statutes, regulations, rulings and court decisions, interest on the 2021 Series B Bonds is excludable from gross income for federal income tax purposes, and interest on the 2021 Series B Bonds is not an item of tax preference for the purpose of computing the alternative minimum tax imposed on individuals. Interest on the 2021 Series C Bonds is generally subject to inclusion in federal gross income of the Holders thereof. In the opinion of Bond Counsel, interest on the 2021 Bonds and any profit made on the sale thereof are exempt from Massachusetts personal income taxes, and the 2021 Bonds are exempt from Massachusetts personal property tax. See “Tax Matters” herein.



MASSACHUSETTS WATER RESOURCES AUTHORITY
\$60,635,000 General Revenue Bonds, 2021 Series B (Green Bonds)
\$687,395,000 General Revenue Refunding Bonds, 2021 Series C
(Federally Taxable) (Green Bonds)

Dated: Date of Initial Delivery

Due: As shown on the inside cover

The Massachusetts Water Resources Authority (the “Authority”) will issue its General Revenue Bonds, 2021 Series B (the “2021 Series B Bonds”) and its General Revenue Refunding Bonds, 2021 Series C (Federally Taxable) (Green Bonds) (the “2021 Series C Bonds”), and together with the 2021 Series B Bonds, the “2021 Bonds”) as fully registered bonds in the name of Cede & Co., as nominee for The Depository Trust Company (“DTC”), New York, New York. Purchases of the 2021 Bonds will be made in book-entry form only, in the denominations of \$5,000 or any integral multiple thereof, and no physical delivery of the 2021 Bonds will be made to purchasers. So long as Cede & Co. is the registered owner of the 2021 Bonds, principal and interest on the 2021 Bonds are payable to DTC by U.S. Bank National Association, as Trustee. See “The 2021 Bonds – Book-Entry-Only System.”

The 2021 Bonds will bear interest at the fixed rates and mature in the years and in the principal amounts set forth on the inside cover pages hereof. Interest on the 2021 Bonds will accrue from their date of delivery. Interest on the 2021 Bonds will be payable on February 1 and August 1 of each year, commencing February 1, 2022. The 2021 Bonds will be subject to redemption prior to maturity, as more fully described herein.

The 2021 Bonds will constitute general obligations of the Authority. In addition, the 2021 Bonds will be secured by a lien on and pledge of certain revenues and other moneys of the Authority, as described herein. Neither the Commonwealth of Massachusetts (the “Commonwealth”) nor any political subdivision thereof shall be obligated to pay the principal of, or premium, if any, or interest on any 2021 Bond, and neither the faith and credit nor the taxing power of the Commonwealth or any political subdivision thereof is pledged to such payment. The Authority has no taxing power.

The 2021 Bonds are offered when, as and if issued by the Authority and received by the Underwriters, subject to the approval of legality by Greenberg Traurig, LLP, Boston, Massachusetts, Bond Counsel, and certain other conditions. Certain legal matters will be passed upon for the Authority by its Disclosure Counsel, McCarter & English, LLP, Boston, Massachusetts, and for the Underwriters by their counsel, Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C., Boston, Massachusetts. Settlement of the issue is expected at DTC in New York, New York on or about December 22, 2021.

December 9, 2021

| | | | | |
|-------------------------|-----------------|------------------------|------------------|-----------------------|
| Citigroup | Barclays | BofA Securities | Jefferies | Morgan Stanley |
| Goldman Sachs & Co. LLC | J.P. Morgan | Ramirez & Co., Inc. | | |
| RBC Capital Markets | | UBS | | |

Massachusetts Water Resources Authority
\$60,635,000 General Revenue Bonds, 2021 Series B (Green Bonds)
Maturities, Amounts, Rates, Yields and CUSIP¹ Numbers

| Year (August 1) | Amount | Interest Rate | Yield | CUSIP ¹ |
|--------------------|-------------|------------------|--------------------|--------------------|
| 2022 | \$2,000,000 | 5.000% | 0.150% | 576051YJ9 |
| 2023 | 5,330,000 | 5.000 | 0.250 | 576051YK6 |
| 2024 | 5,330,000 | 5.000 | 0.360 | 576051YL4 |
| 2025 | 5,325,000 | 5.000 | 0.470 | 576051YM2 |
| 2026 | 5,325,000 | 5.000 | 0.600 | 576051YN0 |
| 2027 | 5,325,000 | 5.000 | 0.730 | 576051YP5 |
| 2028 | 3,500,000 | 5.000 | 0.870 | 576051YQ3 |
| 2029 | 3,500,000 | 5.000 | 0.970 | 576051YR1 |
| 2030 | 1,500,000 | 5.000 | 1.040 | 576051YS9 |
| 2031 | 2,000,000 | 5.000 | 1.090 | 576051YT7 |
| 2032 | 2,000,000 | 5.000 | 1.130 ⁶ | 576051YT4 |
| 2033 | 2,000,000 | 5.000 | 1.190 ⁶ | 576051YV2 |
| 2034 | 2,000,000 | 5.000 | 1.220 ⁶ | 576051YW0 |
| 2035 | 2,000,000 | 5.000 | 1.260 ⁶ | 576051YX8 |
| 2036 | 2,000,000 | 5.000 | 1.280 ⁶ | 576051YY6 |
| 2037 | 2,000,000 | 5.000 | 1.310 ⁶ | 576051YZ3 |
| 2038 | 2,000,000 | 5.000 | 1.340 ⁶ | 576051ZA7 |
| 2039 | 2,500,000 | 5.000 | 1.370 ⁶ | 576051ZB5 |
| 2040 | 2,500,000 | 5.000 | 1.400 ⁶ | 576051ZC3 |
| 2041 | 2,500,000 | 5.000 | 1.410 ⁶ | 576051ZD1 |

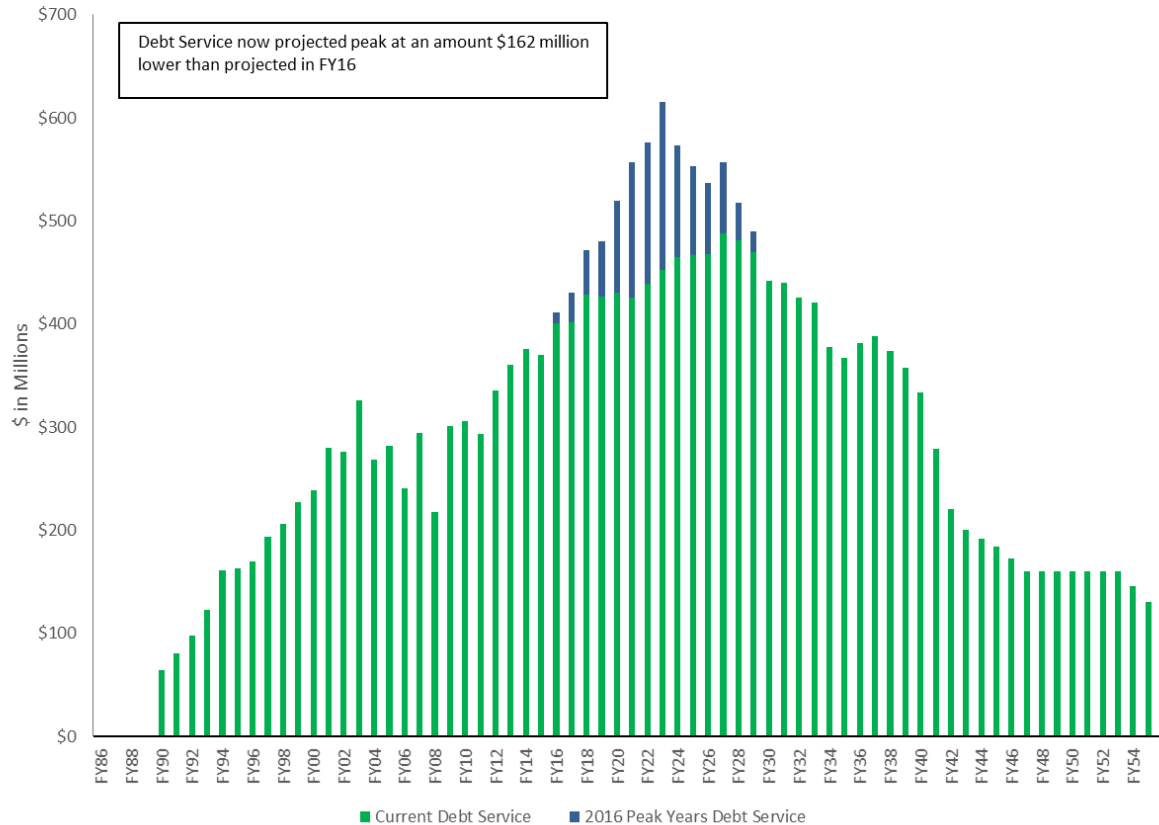
¹ CUSIP is a registered trademark of the American Bankers Association. CUSIP Global Services (CGS) is managed on behalf of the American Bankers Association by S&P Global Market Intelligence. Copyright © 2021 CUSIP Global Services. All rights reserved. The CUSIP numbers herein are not intended to create a database and do not serve in any way as a substitute for CUSIP service. The CUSIP numbers have been assigned by an independent company not affiliated with the Authority, the Trustee or the Underwriters and are included solely for the convenience of the bondholders. None of the Authority, the Trustee or the Underwriters shall be responsible for the selection or correctness of the CUSIP numbers set forth above. The CUSIP numbers are subject to being changed after the issuance of the 2021 Bonds as a result of various subsequent actions including, but not limited to, a refunding in whole or in part of the 2021 Bonds. None of the Authority, the Trustee or the Underwriters have agreed to, nor is there any duty or obligation to, update this Official Statement to reflect any change or correction in the CUSIP numbers printed herein.

⁶ Yield to the first optional redemption date, August 1, 2031.



Active Debt Structuring

Current Debt Service vs. FY16 Debt Service





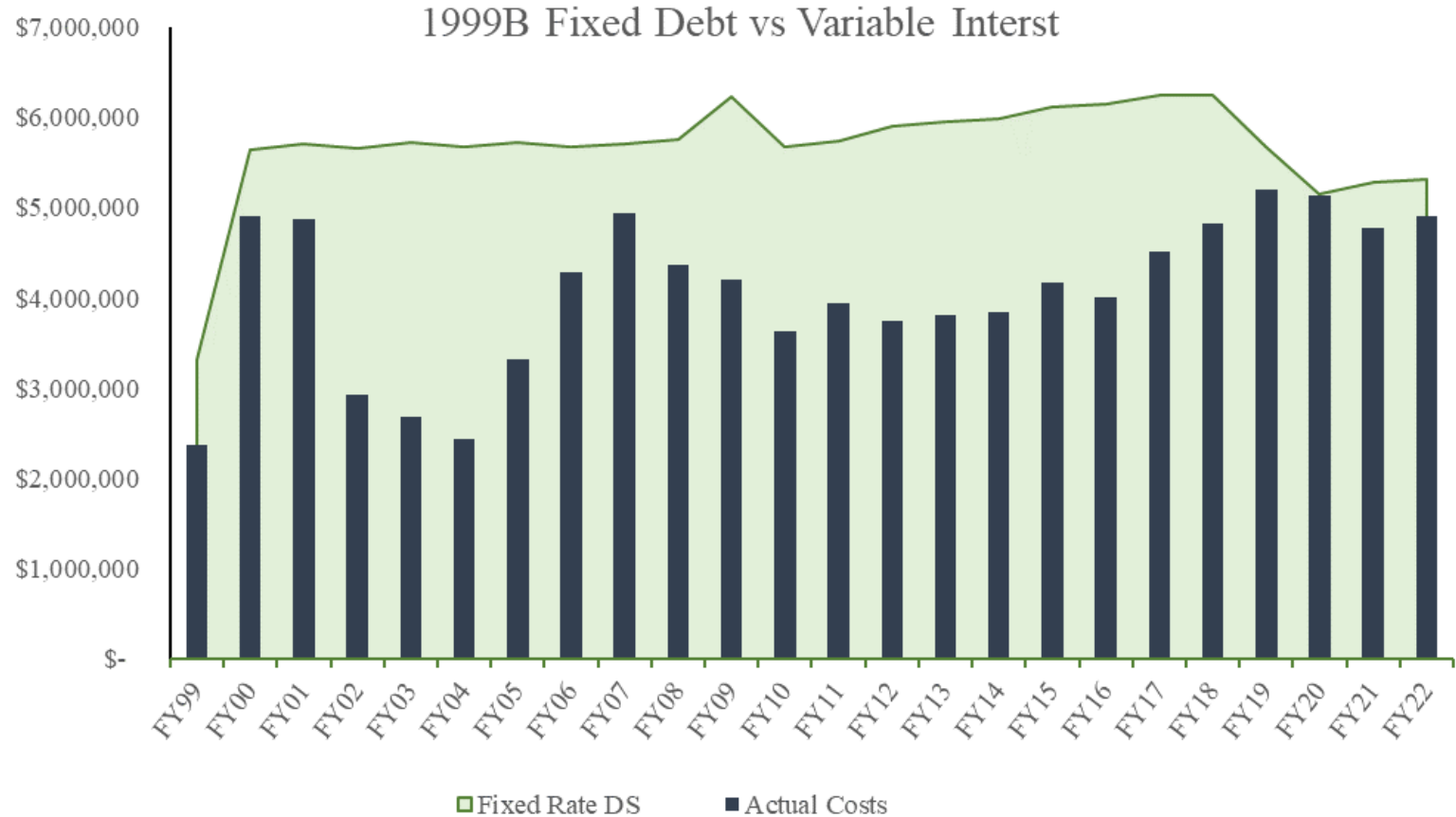
Refunding for Interest Rate Savings

| Series | Principal Refunded | Present Value Savings |
|---------------|-------------------------|-----------------------|
| 1992B & 1993B | \$ 822,405,000 | \$ 25,552,000 |
| 1993C | \$ 147,495,000 | \$ 3,664,000 |
| 1997D & 1998B | \$ 154,513,000 | \$ 17,589,000 |
| 1998D | \$ 182,230,000 | \$ 12,280,000 |
| 2000A | \$ 18,810,000 | \$ 411,000 |
| 2000B & 2000C | \$ 312,490,000 | \$ 42,076,000 |
| 2002 C-G | \$ 446,155,000 | \$ 26,729,000 |
| 2002J | \$ 428,090,000 | \$ 23,760,000 |
| 2004A | \$ 10,860,000 | \$ 470,000 |
| 2004B | \$ 68,350,000 | \$ 5,209,000 |
| 2005A | \$ 424,215,000 | \$ 20,057,135 |
| 2005B | \$ 80,290,000 | \$ 5,499,022 |
| 2006B | \$ 286,400,000 | \$ 5,431,420 |
| 2007B | \$ 647,950,000 | \$ 4,941,170 |
| 2009B | \$ 285,200,000 | \$ 19,525,617 |
| 2010B | \$ 183,570,000 | \$ 6,365,918 |
| 2011C | \$ 352,190,000 | \$ 25,262,292 |
| 2012B | \$ 102,915,000 | \$ 5,242,652 |
| 2013A | \$ 175,595,000 | \$ 13,106,708 |
| 2014E | \$ 38,405,000 | \$ 4,945,700 |
| 2014F | \$ 156,210,000 | \$ 15,223,922 |
| 2016C | \$ 761,430,000 | \$ 111,311,251 |
| 2016D | \$ 102,515,000 | \$ 9,795,633 |
| 2017C | \$ 277,400,000 | \$ 57,506,361 |
| 2018C | \$ 24,935,000 | \$ 3,809,656 |
| 2019C | \$ 20,430,000 | \$ 1,550,686 |
| 2019F | \$ 547,750,000 | \$ 72,939,199 |
| 2019G | \$ 22,825,000 | \$ 349,086 |
| 2021C | \$ 687,395,000 | \$ 65,908,532 |
| TOTAL | \$ 7,769,018,000 | \$ 606,511,959 |

31% of funded bonds
53% of the savings

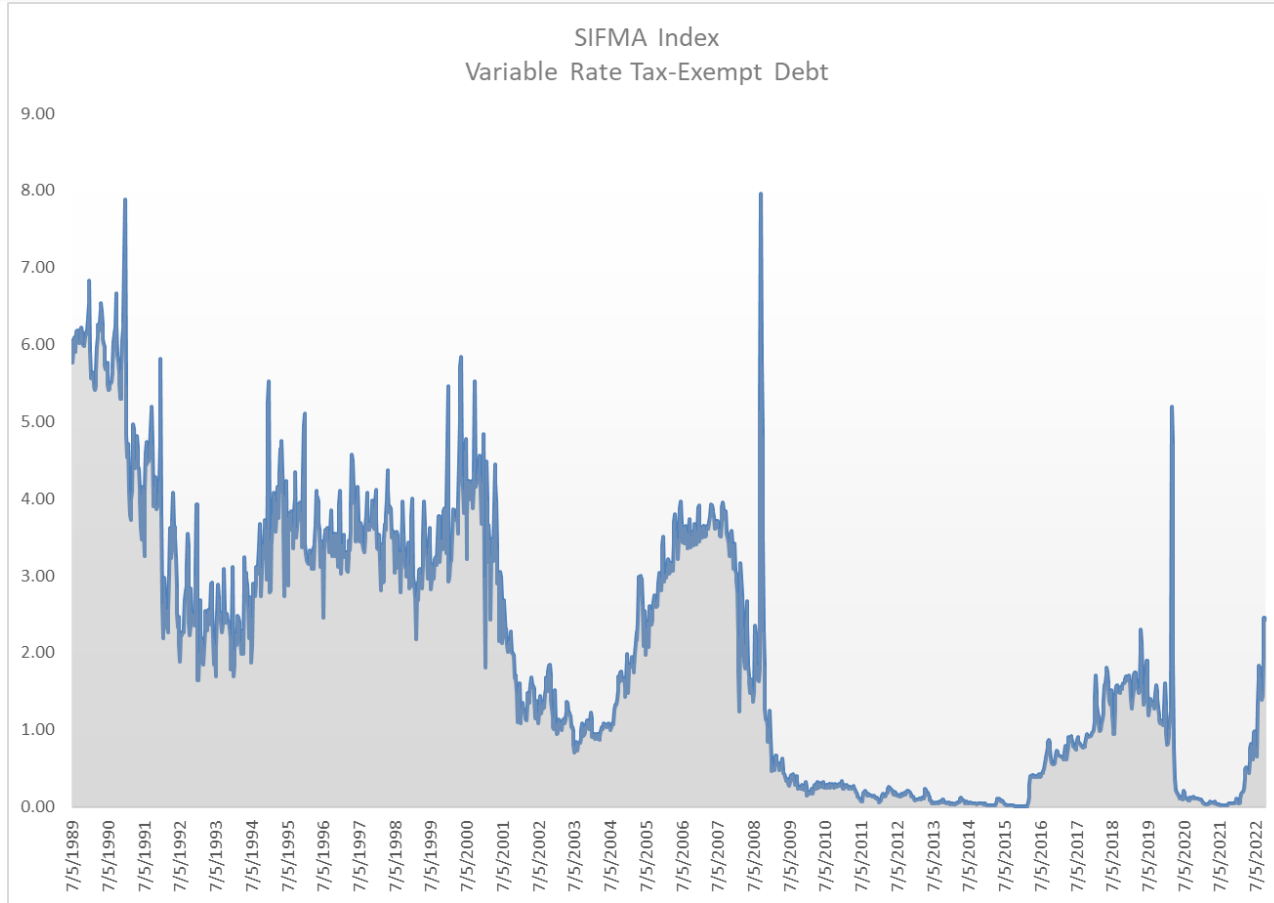


Variable Rate Debt



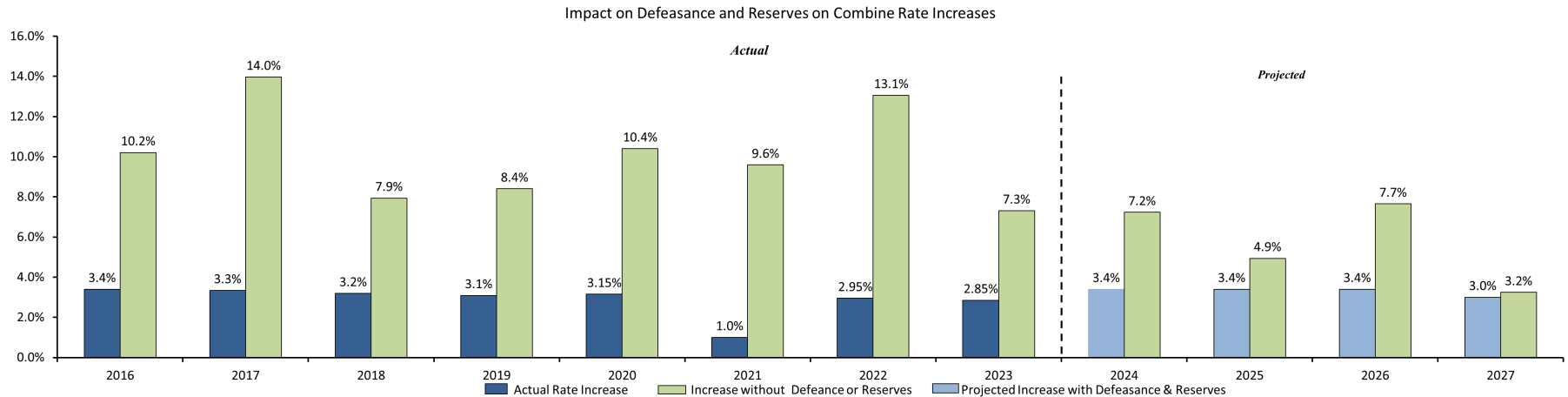


Variable Rate Debt





Impact of Defeasance and Use of Reserves on Debt Service





MWRA's Rate Projections

- Direct Expenses
 - 3.0% inflation for expenses
 - 2.7% inflation for salaries
- Indirect Expenses
 - Actuarial Studies
 - 3.0%-4.0% Inflation
- Debt Service
 - Actual
 - Projected
- Rates projections and assumptions reviewed every three years by MWRA Consulting Engineer

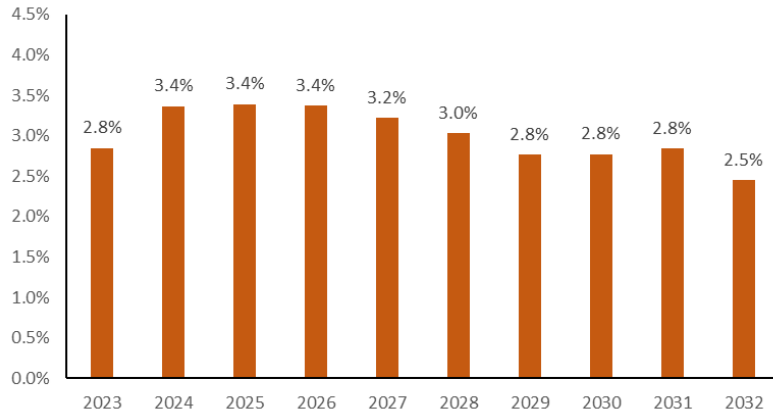
| MASSACHUSETTS WATER RESOURCES AUTHORITY RATES AND BUDGET PROJECTIONS (\$000) | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-------------|---|-------------|
| FY23 (#3.0) | | | | | | | | | | | | |
| See Comments | | | | | | | | | | | | |
| COMBINED UTILITIES | FY2023 | FY2024 | FY2025 | FY2026 | FY2027 | FY2028 | FY2029 | FY2030 | FY2031 | FY2032 | ASSUMPTIONS | |
| EXPENSES | | | | | | | | | | | Run Date | 25-Jun-22 |
| Direct Expenses | \$209,910 | \$273,722 | \$282,191 | \$290,630 | \$298,692 | \$307,724 | \$316,766 | \$324,710 | \$333,901 | \$343,489 | Run Time | 17:08 AM |
| Indirect Expenses | \$6,692 | \$6,496 | \$2,162 | \$4,794 | \$7,694 | \$1,073 | \$4,466 | \$8,469 | \$4,887 | \$2,419 | Future Cessionation | |
| Capital Financing (Before offsets) | \$87,832 | \$27,156 | \$24,878 | \$24,878 | \$24,878 | \$24,878 | \$24,878 | \$24,878 | \$24,878 | \$24,878 | FY2024-2050 | |
| Sub-Total Expenses | \$614,236 | \$304,373 | \$299,330 | \$309,718 | \$326,112 | \$333,675 | \$346,109 | \$358,057 | \$363,656 | \$370,786 | FY2024-2050 | |
| Debt Service Assistance | (1,298) | (1,162) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Other Directs | |
| Bond Redemption Savings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | FY2024-2050 | |
| Variable Rate Savings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | FY2024-2050 | |
| Total Expenses | \$612,938 | \$303,211 | \$299,330 | \$309,718 | \$326,112 | \$333,675 | \$346,109 | \$358,057 | \$363,656 | \$370,786 | Use of Resources for Rate Stabilization | |
| REVENUE & INCOME | | | | | | | | | | | Rate | Bond |
| Non-Member and Other Revenue | \$16,702 | \$16,878 | \$16,838 | \$17,652 | \$17,482 | \$17,892 | \$18,312 | \$18,741 | \$19,002 | \$19,270 | Stabilization/HSEC | Redemption |
| Interest Income | 3,991 | 6,687 | 9,426 | 10,139 | 10,935 | 11,949 | 12,442 | 13,053 | 13,486 | 13,901 | Combined | |
| Rate Stabilization/HSEC Reserve | 1,260 | 880 | 1,166 | 817 | 889 | 789 | 789 | 789 | 789 | 789 | FY2023 | 889 |
| Total Other Revenue | \$20,953 | \$24,643 | \$27,268 | \$28,108 | \$29,126 | \$30,621 | \$31,639 | \$32,613 | \$33,277 | \$33,960 | FY2024 | 1,166 |
| Total Rate Revenue | \$792,084 | \$814,443 | \$842,064 | \$876,610 | \$899,089 | \$928,994 | \$957,159 | \$983,509 | \$1,010,632 | \$1,038,917 | FY2025 | 817 |
| Rate Revenue Change | 3.9% | 2.69% | 3.4% | 3.4% | 3.4% | 3.2% | 3.0% | 2.6% | 2.6% | 2.6% | FY2026 | 889 |
| Estimated Annual Household Charge ** | \$1,276 | \$1,328 | \$1,388 | \$1,447 | \$1,510 | \$1,578 | \$1,643 | \$1,712 | \$1,785 | \$1,861 | FY2027 | 917 |
| Based on water use of 6.9 gpc (weighted) | \$1,881 | \$1,869 | \$2,046 | \$2,136 | \$2,239 | \$2,325 | \$2,424 | \$2,527 | \$2,635 | \$2,746 | FY2028 | 899 |
| Based on water use of 9.0 gpc (weighted) | | | | | | | | | | | FY2029 | 789 |
| WASTEWATER UTILITY | FY2023 | FY2024 | FY2025 | FY2026 | FY2027 | FY2028 | FY2029 | FY2030 | FY2031 | FY2032 | FY2030 | FY2031 |
| EXPENSES | | | | | | | | | | | Type | Fiscal Year |
| Direct Expenses | \$198,080 | \$176,649 | \$181,662 | \$198,881 | \$191,913 | \$197,917 | \$202,878 | \$220,748 | \$225,739 | \$228,868 | Term | Rate |
| Indirect Expenses | 21,704 | 22,384 | 23,027 | 24,086 | 26,311 | 28,988 | 28,320 | 30,214 | 27,319 | 18,300 | Fixed Debt | FY23 |
| Capital Financing (Before offsets) | \$24,146 | \$37,387 | \$39,090 | \$39,658 | \$71,891 | \$33,113 | \$39,109 | \$36,684 | \$36,878 | \$24,867 | Fixed Debt | FY24-FY30 |
| Sub-Total Wastewater Expenses | \$624,430 | \$636,330 | \$654,840 | \$671,325 | \$638,916 | \$650,999 | \$672,430 | \$694,547 | \$699,936 | \$678,425 | SRF - Sewer | FY23-FY30 |
| Debt Service Assistance | (1,173) | (1,077) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | SRF - Water | FY23-FY30 |
| Bond Redemption Savings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | SRF - Sewer | FY23-FY30 |
| Variable Rate Savings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | SRF - Water | FY23-FY30 |
| Total Wastewater Expenses | \$623,257 | \$635,253 | \$654,840 | \$671,325 | \$638,916 | \$650,999 | \$672,430 | \$694,547 | \$699,936 | \$678,425 | Variable Rate | FY23 |
| REVENUE & INCOME | | | | | | | | | | | Existing Issues | 5.00% |
| Non-Member and Other Revenue | \$5,632 | \$6,474 | \$6,549 | \$6,738 | \$6,932 | \$6,981 | \$6,234 | \$6,390 | \$6,632 | \$6,723 | Existing Issues | 4.00% |
| Interest Income | 2,306 | 6,062 | 6,890 | 6,841 | 6,004 | 4,354 | 6,812 | 7,074 | 7,389 | 7,389 | FY24-FY30 | 20 |
| Rate Stabilization/HSEC Reserve | 1,260 | 980 | 800 | 676 | 426 | 360 | 500 | 200 | 140 | 12 | FY23 Borrowing Plan | |
| Prior Year Utility Surplus/Deficit Transfer | \$9,087 | \$2,633 | \$2,138 | \$2,138 | \$12,264 | \$12,264 | \$13,264 | \$13,264 | \$14,129 | \$14,129 | Amount | Term |
| Total Revenue/Income/Utility Transfers | \$28,245 | \$18,149 | \$16,277 | \$16,277 | \$20,226 | \$20,226 | \$20,226 | \$20,226 | \$20,226 | \$20,226 | Rate | 6.00% |
| Wastewater Rate Revenue | \$651,499 | \$653,402 | \$671,117 | \$687,602 | \$659,142 | \$671,225 | \$692,656 | \$714,773 | \$720,162 | \$728,651 | SRF - Sewer | 20,000 |
| Rate Revenue Change | 2.7% | 2.7% | 3.1% | 3.1% | 3.1% | 3.2% | 3.2% | 3.1% | 3.1% | 3.1% | SRF - Water | 20,000 |
| Estimated Annual Household Charge ** | \$793 | \$794 | \$838 | \$854 | \$860 | \$842 | \$879 | \$1,018 | \$1,081 | \$1,104 | FY23 Debt | \$ |
| Based on water use of 6.9 gpc (weighted) | \$1,128 | \$1,171 | \$1,222 | \$1,276 | \$1,330 | \$1,387 | \$1,446 | \$1,504 | \$1,565 | \$1,628 | Amount | Term |
| Based on water use of 9.0 gpc (weighted) | | | | | | | | | | | Rate | 6.00% |
| WATER UTILITY | FY2023 | FY2024 | FY2025 | FY2026 | FY2027 | FY2028 | FY2029 | FY2030 | FY2031 | FY2032 | FY23 | 6,000 |
| EXPENSES | | | | | | | | | | | FY27 | - |
| Direct Expenses | \$40,731 | \$47,713 | \$100,838 | \$103,849 | \$106,779 | \$109,806 | \$112,777 | \$115,891 | \$119,235 | \$122,757 | FY28 | 6,000 |
| Indirect Expenses | 14,949 | 38,112 | 38,138 | 40,708 | 42,373 | 44,203 | 46,136 | 48,196 | 47,688 | 42,169 | FY29 | 1,600 |
| Capital Financing (Before offsets) | \$18,878 | \$18,238 | \$24,818 | \$24,818 | \$24,818 | \$24,818 | \$24,818 | \$24,818 | \$24,818 | \$24,818 | FY30 | - |
| Sub-Total Water Expenses | \$209,247 | \$204,073 | \$214,881 | \$229,375 | \$234,970 | \$240,727 | \$246,723 | \$252,923 | \$259,541 | \$266,733 | FY31 | - |
| Debt Service Assistance | (116) | (105) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | FY32 | - |
| Bond Redemption Savings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Average Investment Rates | |
| Variable Rate Savings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Short Term | Long Term |
| Total Water Expenses | \$209,131 | \$203,968 | \$214,881 | \$229,375 | \$234,970 | \$240,727 | \$246,723 | \$252,923 | \$259,541 | \$266,733 | FY23 | 1.00% |
| REVENUE & INCOME | | | | | | | | | | | FY24-FY30 | 1.60% |
| Non-Member and Other Revenue | \$10,179 | \$10,602 | \$10,987 | \$11,294 | \$11,646 | \$11,911 | \$12,079 | \$12,262 | \$12,449 | \$12,567 | Other Comments | |
| Interest Income | 1,668 | 3,636 | 3,306 | 4,480 | 4,829 | 5,216 | 5,600 | 5,984 | 6,216 | 6,448 | 1) Based on FY23 CES Model #2.0 | |
| Rate Stabilization/HSEC Reserve | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2) FY28 & FY27 CIP capped at \$46M each year. | |
| Prior Year Utility Surplus/Deficit Transfer | \$2,633 | \$2,633 | \$2,633 | \$2,633 | \$2,633 | \$2,633 | \$2,633 | \$2,633 | \$2,633 | \$2,633 | | |
| Total Revenue/Income/Utility Transfers | \$111,850 | \$116,863 | \$116,957 | \$116,406 | \$116,762 | \$117,462 | \$118,191 | \$118,846 | \$119,489 | \$120,129 | | |
| Water Rate Revenue | \$227,416 | \$220,836 | \$231,838 | \$245,781 | \$251,732 | \$258,189 | \$264,918 | \$271,771 | \$278,030 | \$284,146 | | |
| Rate Revenue Change | 3.9% | 3.9% | 3.9% | 3.9% | 3.9% | 3.9% | 3.9% | 3.9% | 3.9% | 3.9% | | |
| Estimated Annual Household Charge ** | \$612 | \$614 | \$668 | \$683 | \$695 | \$698 | \$694 | \$693 | \$724 | \$767 | | |
| Based on water use of 6.9 gpc (weighted) | \$716 | \$738 | \$793 | \$823 | \$850 | \$880 | \$910 | \$940 | \$1,023 | \$1,089 | | |
| Based on water use of 9.0 gpc (weighted) | | | | | | | | | | | | |

** Annual household charges are estimated for communities that receive full water and wastewater services from MWRA weighted by the number of households in each of these core communities. Based on community responses to the 2021 MWRA Advisory Board's Annual Water and Sewer Rate Survey.

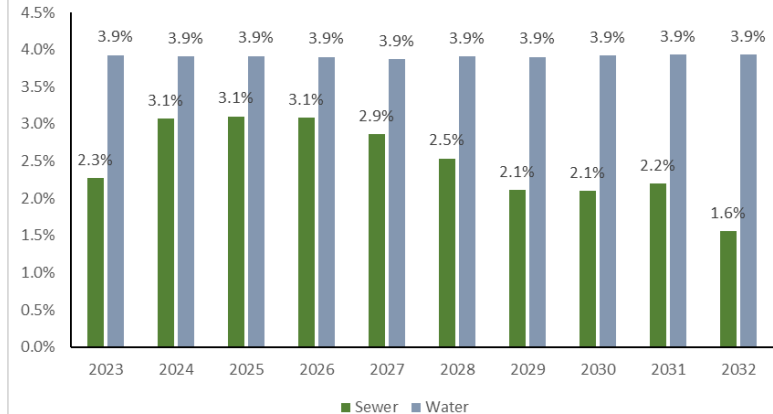


Projected Rate Revenue Requirement Increases

Combined Rate Increase



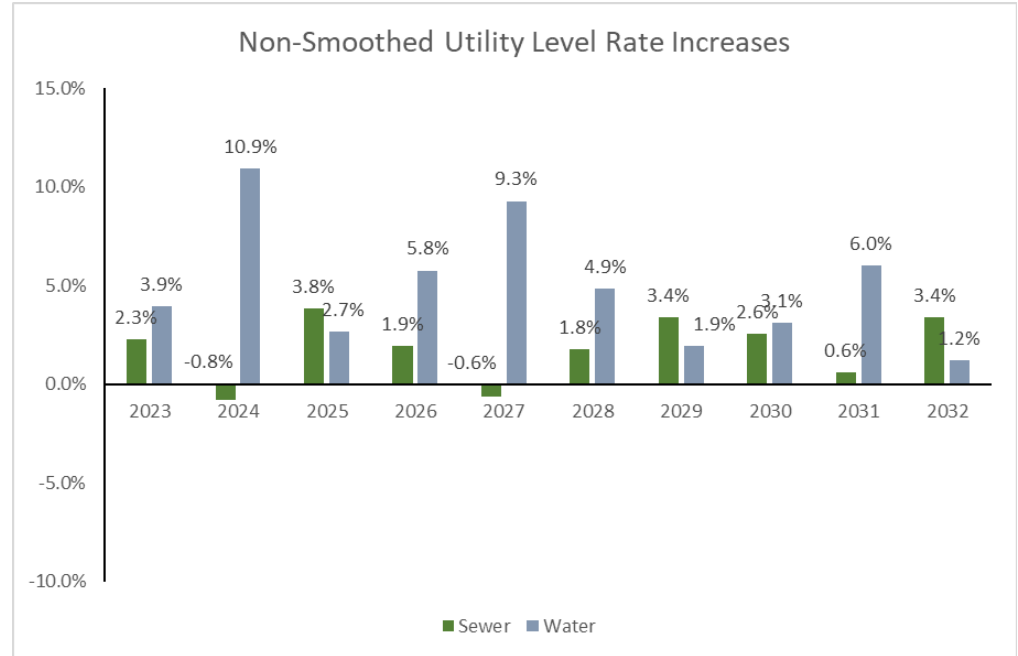
Utility Level Rate Increase





Debt Service Utility Smoothing

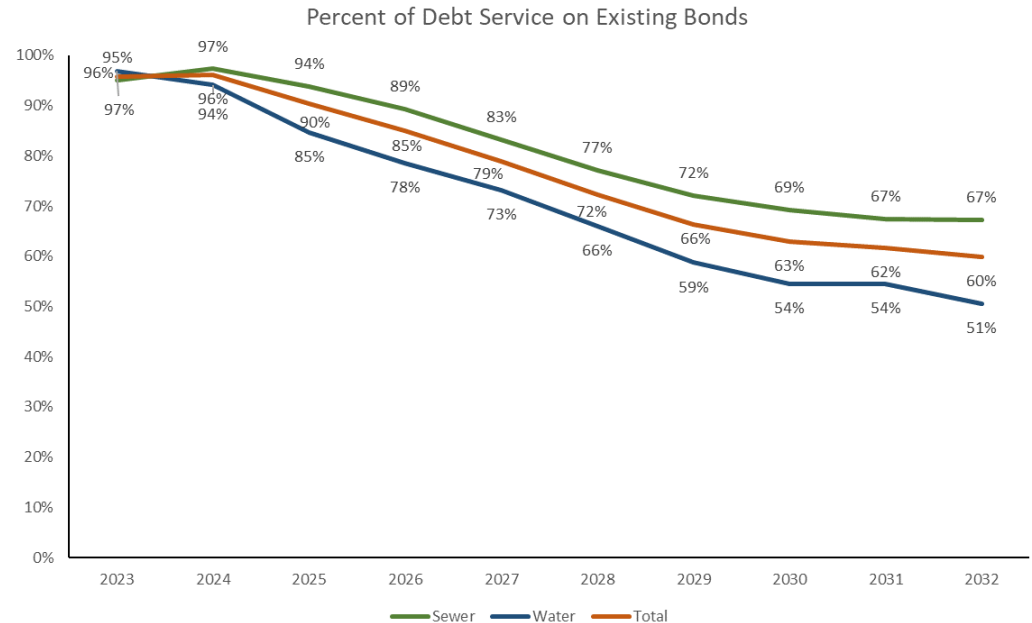
- Utility smoothing first utilized in FY17 Rates Model Projections.
- Existing Debt Service structured around combined rate increases.
- Projected Debt Service structured by model as level debt service based on a percentage sewer/water split.





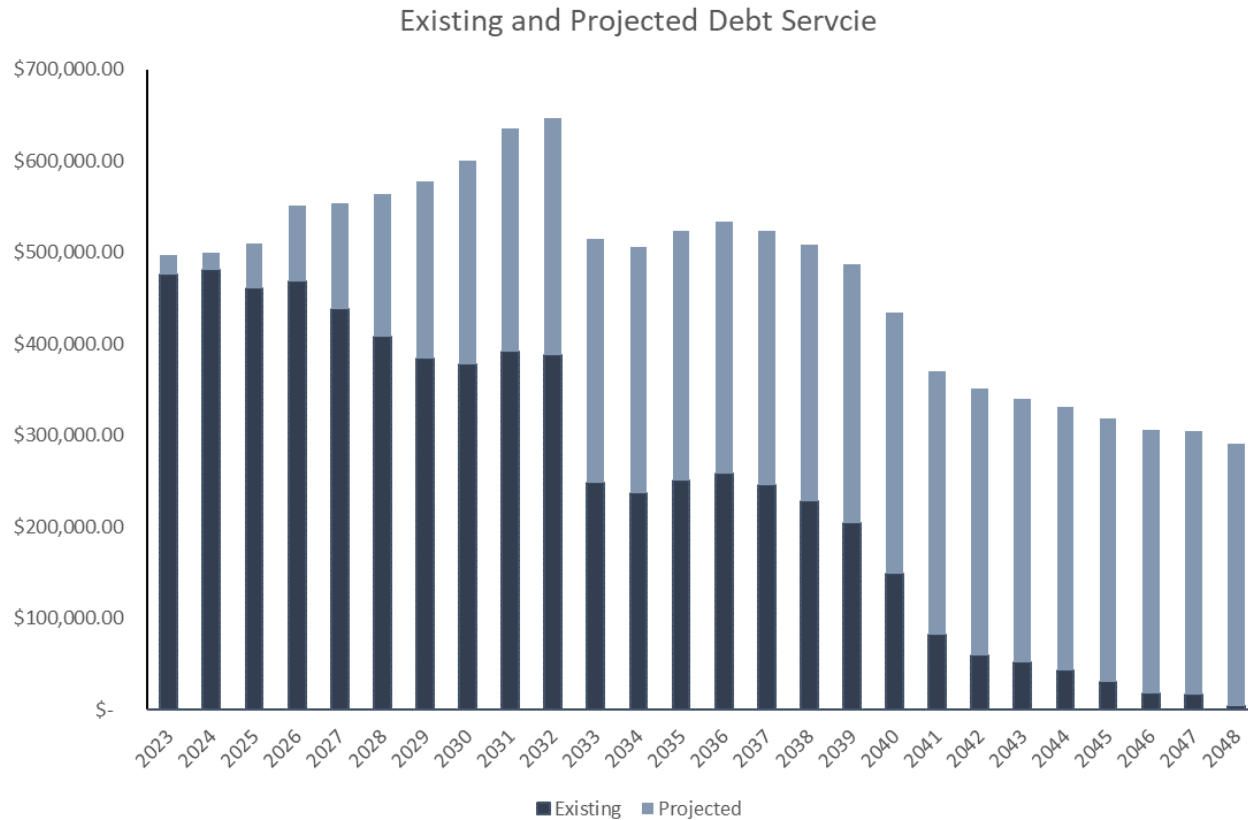
Debt Service Utility Smoothing

- Percentage of annual debt service structured by the model increases over time.
- Utility Smoothing helps to synthetically structure the bonds similar to how MWRA is likely to issue them.



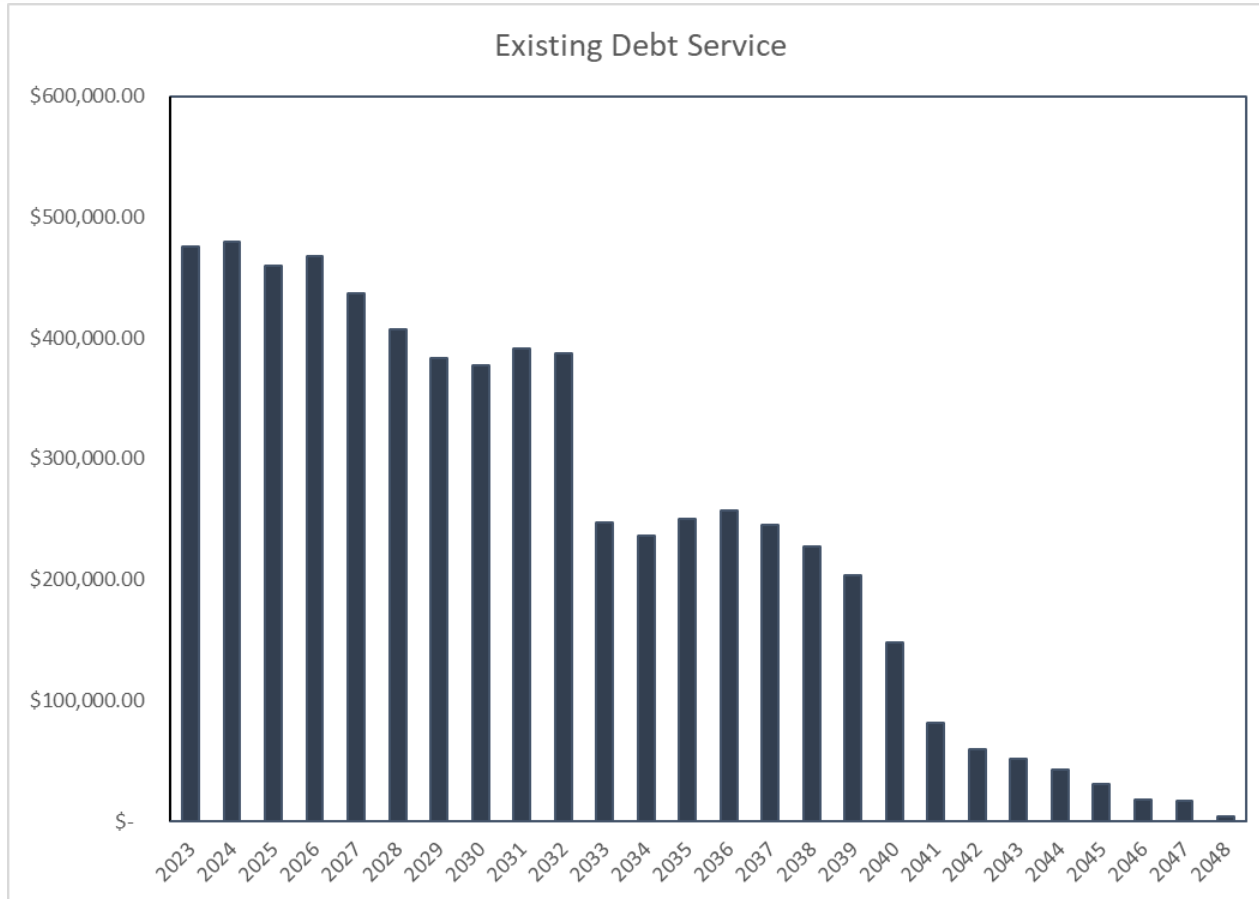


Structuring of a Bond Transaction



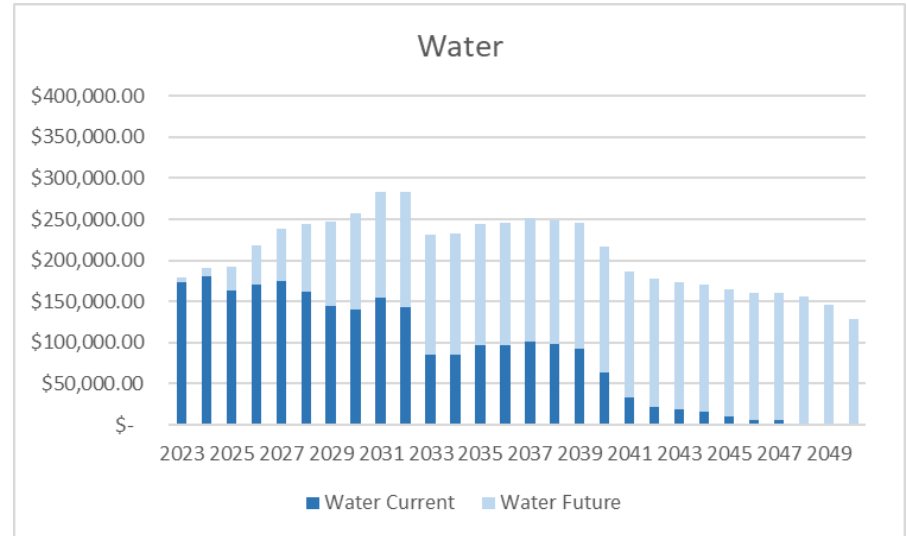
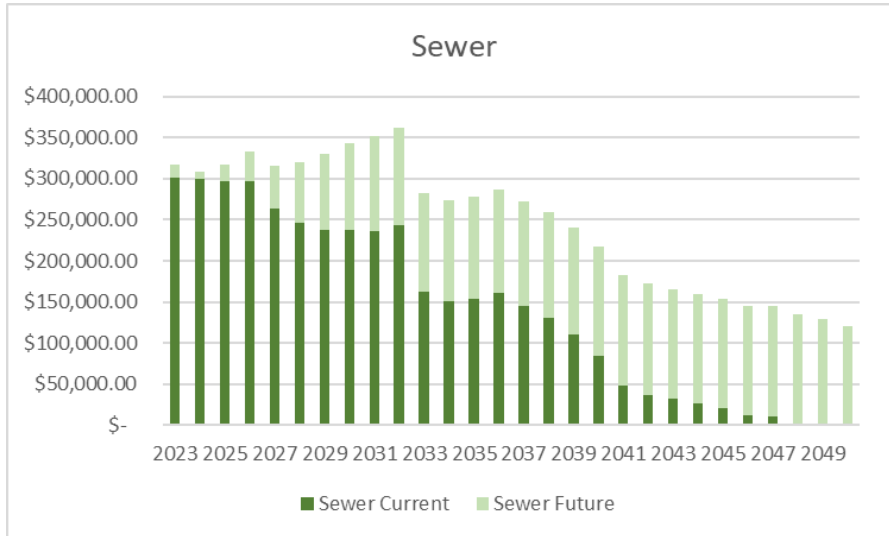


Structuring of a Bond Transaction



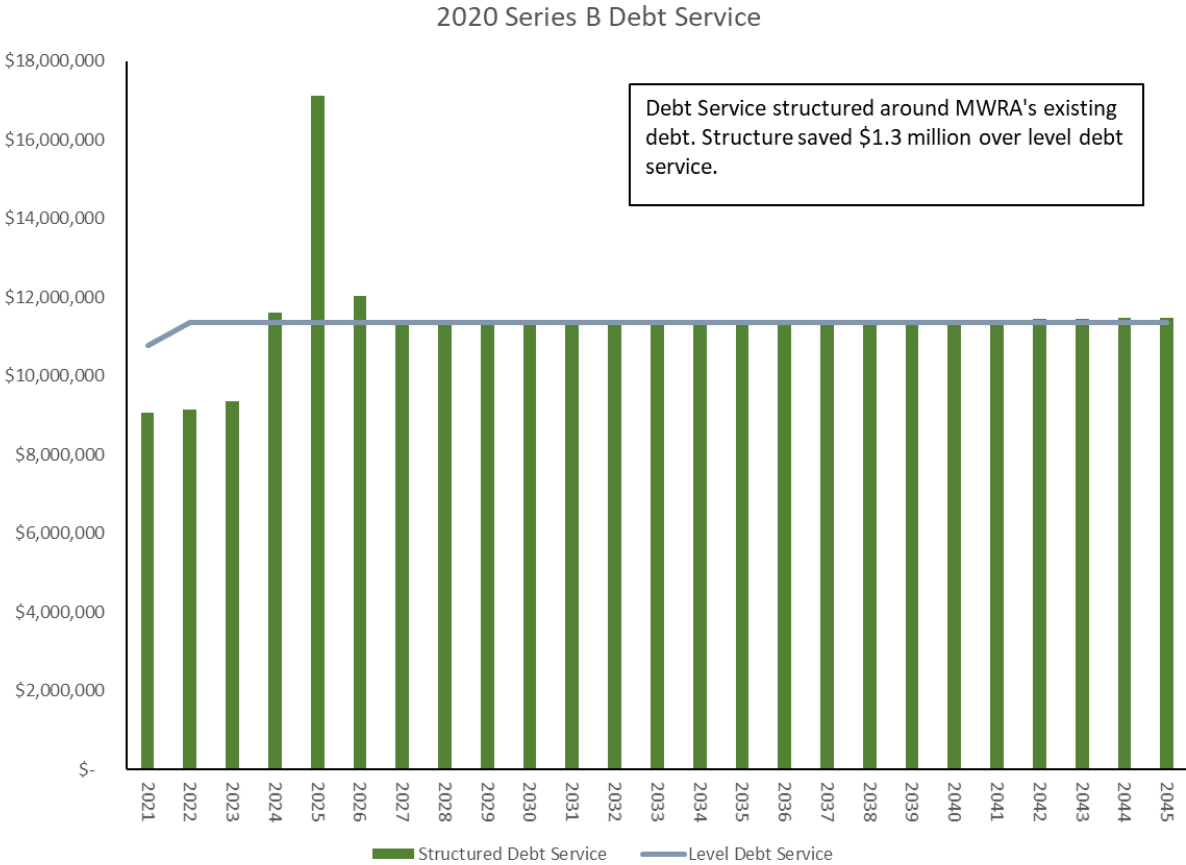


Structuring of a Bond Transaction



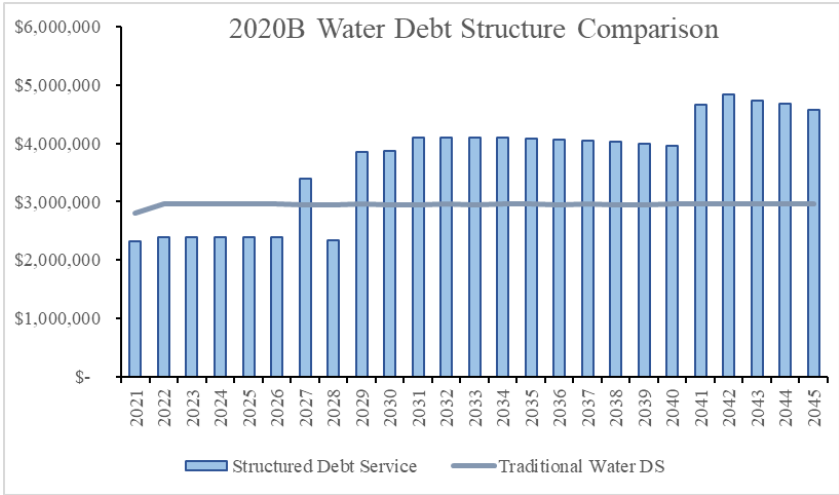
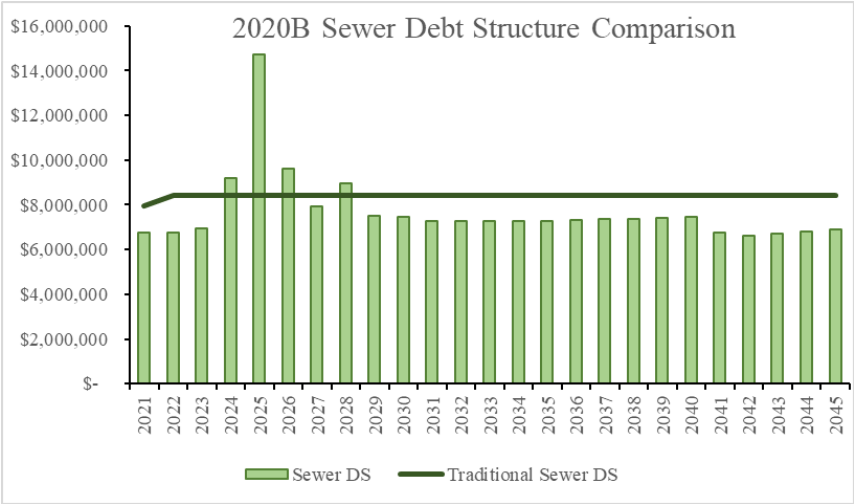


2020 Series B Structured Debt Service



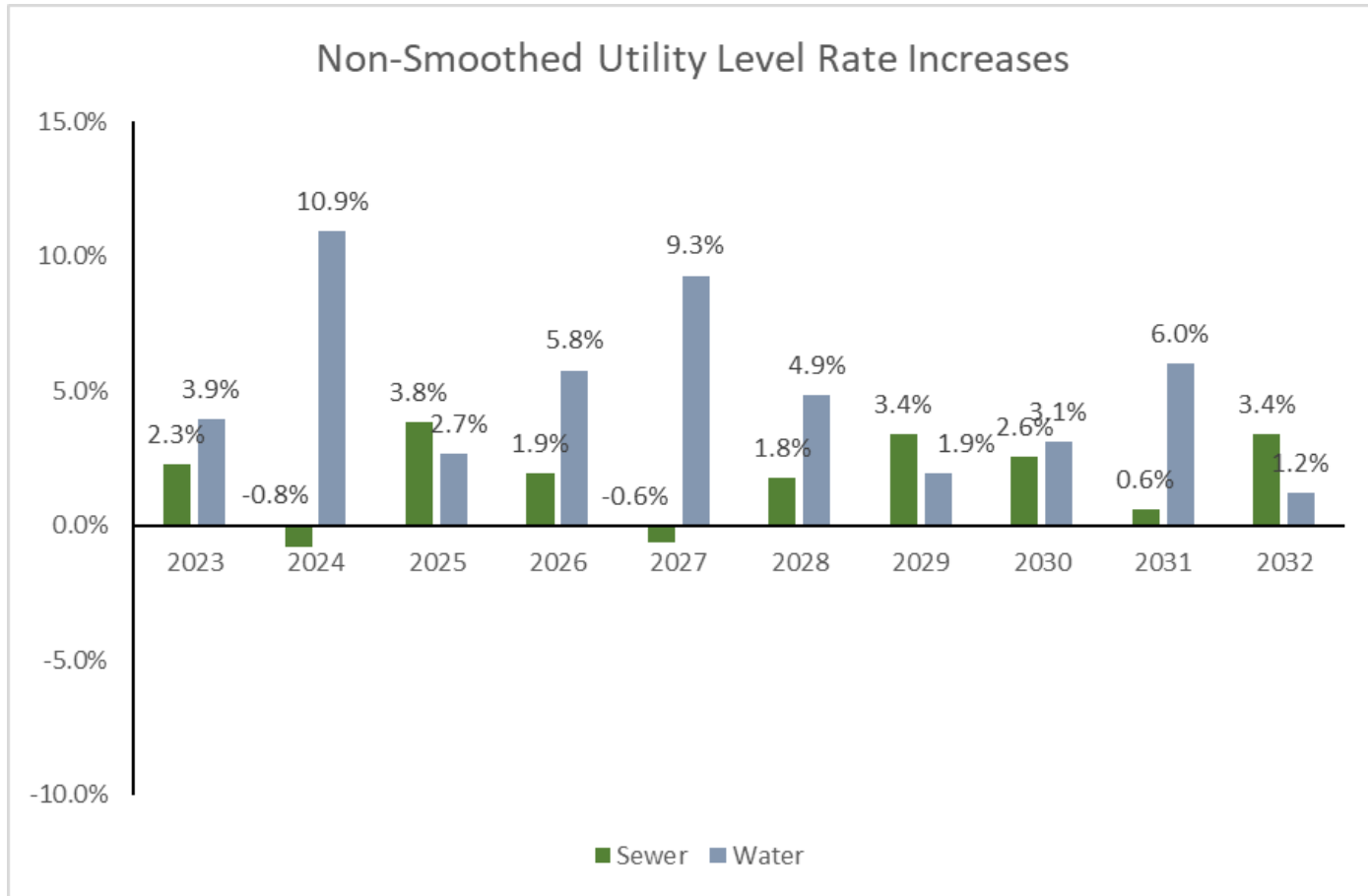


2020 Series B Structure Debt Service





Utility Level Increases without Smoothing





Projected Rate Revenue Requirement Increases

