
Metropolitan Water Reclamation District Retiree Health Care Trust

A Component Unit of the Metropolitan Water
Reclamation District of Greater Chicago

Chicago, Illinois



Annual Comprehensive Financial Report As of and for the year ended December 31, 2022

Prepared by the Management and Staff of
The Metropolitan Water Reclamation District of Greater Chicago

Mary Ann Boyle, Treasurer

Trust Established December 6, 2007

**Metropolitan Water Reclamation District Retiree Health Care Trust
A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago**

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A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago**

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INTRODUCTORY SECTION



Government Finance Officers Association

Certificate of
Achievement
for Excellence
in Financial
Reporting

Presented to

**Metropolitan Water Reclamation District
Retiree Health Care Trust
Illinois**

For its Annual Comprehensive
Financial Report
For the Fiscal Year Ended

December 31, 2021

Christopher P. Morill

Executive Director/CEO

Metropolitan Water Reclamation District Retiree Health Care Trust

100 East Erie Street
Chicago, Illinois 60611
(312) 751-5150

May 12, 2023

Members of the Board of Commissioners of the
Metropolitan Water Reclamation District of Greater Chicago
Trustee and Fiduciary for the MWRD Retiree Health Care Trust
100 East Erie Street
Chicago, Illinois 60611

Dear Commissioners:

Submitted herewith is the Annual Comprehensive Financial Report of the Metropolitan Water Reclamation District Retiree Health Care Trust ("Trust") for the year ended December 31, 2022. Responsibility for the accuracy of the data and the completeness and fairness of the presentation, including all disclosures, is fully assumed by management of the Metropolitan Water Reclamation District of Greater Chicago ("the District"). To the best of our knowledge and belief, the enclosed financial statements, supporting schedules, and statistical tables are accurate in all material respects and are reported in a manner designed to present fairly the financial position and the results of operations of the Trust. All disclosures necessary to enable the reader to gain an understanding of the Trust's financial activities have been included.

The Trust's financial statements for the year ended December 31, 2022 have been subject to an audit by independent auditors approved by the District's Board of Commissioners. The unmodified opinion of Baker Tilly US, LLP has been included in the Financial Section of this report.

Accounting principles generally accepted in the United States of America require that management provide a narrative introduction, overview, and analysis to accompany the basic financial statements in the form of Management's Discussion and Analysis ("MD&A"). This letter of transmittal is designed to complement the MD&A and should be read in conjunction with it. The MD&A can be found immediately following the report of the independent auditor.

INTERNAL CONTROLS

The District operates within a system of internal controls established and continually reviewed by management. This provides reasonable assurance that assets are adequately safeguarded and transactions are recorded correctly according to District policies and procedures. When establishing or reviewing controls, management must consider the cost of the control and value of the benefit derived from its utilization. Management normally maintains and implements all sensitive controls and those controls whose value

adequately exceeds their cost. Management believes both the District's and the Trust's internal controls, procedures, and policies adequately safeguard assets and provide reasonable assurance of proper recording of financial transactions. The Trust's annual independent audit disclosed no material weakness.

FUND DESCRIPTION

Pursuant to 70 ILCS 2605/9.6d, the Metropolitan Water Reclamation District Retiree Health Care Plan ("Plan") and the Trust Agreement were initially adopted by the Board of Commissioners of the District effective December 6, 2007, to recognize the contribution made to the employer by its employees. Its purpose is to reward the employees by providing retiree health care benefits for qualifying employees and their eligible spouses and dependents as defined by the Plan. Retiree health care benefits are defined as post-retirement medical and prescription drug coverage only; no dental, life, or disability benefits are provided by the Plan. The Plan is intended to satisfy the requirements of Section 115 of the Internal Revenue Code of 1986, as amended. The District established the Trust to fund future benefits to be provided under the Plan. The Trust is considered a component unit of the District and as such is included in the District's financial statements as a retiree health care trust fund.

The Plan and Trust agreements were revised on March 5, 2020 to clarify certain definitions, eligibility, election, benefit provisions, claims, appeals, legal provisions, roles and duties, accounting and reporting provisions, and the amendments and termination process.

Descriptions of the Plan and Trust agreements are provided within the footnotes to the Financial Statements in the Financial Section and within the Actuarial Section of this report.

BOARD OF COMMISSIONERS OF THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

The District, acting through its Board of Commissioners ("BOC"), serves as Trustee and Fiduciary for the Trust. The Trustee takes, holds, invests, administers, and distributes contributions and assets paid or delivered to the Trust. All rights, title and interest in and to the assets of the Trust Fund are at all times vested exclusively in the Plan. All contributions received together with the income from the contributions are held, managed, and administered by the Trustee pursuant to the terms of the Plan without distinction between principal and income and without liability for the payment of interest.

The BOC appointed an Executive Committee, comprised of the Chairman of Finance, the Treasurer, and the Director of Finance, to be responsible for certain activities with regard to the Trust, subject to the approval of the BOC. These activities include but are not limited to: recommendation of an investment advisor; acceptance or rejection of investment recommendations from the investment advisor; and certain financial reporting responsibilities.

PROFESSIONAL STAFF AND SERVICES

The District staff is responsible for providing the various services and information to the Trustee and to the members of the Trust, active and retired. This team is comprised of an Investment Advisor (“Advisor”) and personnel from the Treasury, Finance, Human Resources, Budget, and Law Departments of the District. The Trustee selects the Advisor for a five-year service contract via a public Request for Proposal.

Typical staff activities include the development of an Investment Policy and Asset Allocation Strategy; investment and management of Trust assets; regular reporting to the Trustee; internal and external audits of the Trust; and training of the Trustee. General accounting activities are tracked on the SAP Enterprise system.

FUNDING POLICY

In 2007, the BOC adopted an initial advance funding policy meant to (i) improve the District’s financial position by reducing the amount of future contributions and (ii) serve to establish a reserve to help ensure the financial ability to provide healthcare coverage for District retirees and annuitants in the future. On October 2, 2014, the advance funding policy was amended by the BOC with the following guidelines:

Target Funding Level:	100% maximum
Funding Period:	12 years
Funding Amount:	\$5 million funding in each of the twelve years 2015 through 2026, with no further advance funding contributions required after 2026.

Beginning in 2027, cash to be withdrawn from the Trust to fund claims and insurance premiums will be determined by the Trust’s actuary with the target funding level to be maintained at 100 percent for all future years. There is currently no legal requirement for the District to partially or fully fund the OPEB (“Other Postemployment Benefits”) Trust Fund and any funding is on a voluntary basis.

FUNDING STATUS

The funding for the Trust is accomplished in two parts. The District pays the retiree health care claim payments and insurance premiums from operating funds, and also contributes the advance funding amount to the Trust. Benefit payments and premiums are not paid from the advance funding contributions to the Trust. Currently, the Trust functions solely as an advance funding vehicle.

Income for the Trust is from two sources: employer contributions and investment income. Income from employer contributions is appropriated each year by the BOC. The District’s BOC has discretionary authority to determine contribution amounts to be paid into the Trust. Through December 31, 2022, an aggregate of \$152,400,000 has been contributed by the District to the OPEB Trust Fund. The advance funding contribution for 2022 was \$5,000,000 in accordance with the Trust’s current funding policy requirement. In succeeding fiscal years the Trust will receive the District (employer) contributions as determined by the BOC.

The Plan's Net OPEB Liability was \$88,280,223 as of December 31, 2022, based on an update roll-forward valuation from the most recent actuarial valuation. The Net OPEB Liability is measured as the Total OPEB Liability, less the amount of the Plan's Fiduciary Net Position, in which plan assets have been placed in a trust and dedicated to providing benefits to retirees and their beneficiaries. Future direction may be changed based on national health care policies.

The Plan Fiduciary Net Position as a percentage of the Total OPEB Liability was 74.95% at December 31, 2022, based on an update roll-forward valuation from the most recent actuarial valuation.

INVESTMENT POLICY AND PERFORMANCE

The assets of the Trust shall be managed by the Treasurer of the District in any manner, subject only to prudent investor standards and any requirements of federal law. The Trust shall discharge its duties in the same manner as that of a prudent person acting in a like capacity with the same resources and aims; diversify the holdings of the Trust to minimize the risk of loss and maximize the rate of return; and discharge duties solely in the interest and for the benefit of the funds managed. The Trust's Investment Policy was initially adopted by the District's BOC on November 19, 2009, and was subsequently revised on November 15, 2018 to allow for new asset allocation targets structured to provide competitive performance while minimizing the potential for losses.

The Trust reported a total investment loss of \$51,910,508 for 2022, yielding -16.5%, compared to the Trust's Policy Index return of -15.6%. In 2021 the Trust reported a total investment return of \$36,054,320, yielding 13.1%, compared to the Policy Index return of 9.7%.

Refer to the Investment Section of this report for further information regarding investment authority and performance.

BENEFITS

The establishment and funding of the Trust is expected to provide multiple benefits, including:

- Progress towards reducing large unfunded liability;
- Capture of long-term investment returns by using the Trust only as a funding vehicle;
- Reduction in future GASB No. 75 expense and cash funding requirements; and
- Provide funding so that the District is able to ease the financial burden of administering the Plan benefits to its current and future retirees.

AWARDS AND ACKNOWLEDGMENTS

The preparation of this report reflects the combined efforts of the District staff under the direction of the Board of Trustees. This report is intended to provide complete and reliable information as a basis for making management decisions, as a means of determining compliance with legal provisions, and as a means for determining responsible stewardship of the assets of the Trust.

The Government Finance Officers Association of the United States and Canada (“GFOA”) awarded a Certificate of Achievement for Excellence in Financial Reporting to the Trust for its Annual Comprehensive Financial Report for the period ended December 31, 2021. The Certificate of Achievement is a prestigious national award recognizing excellence in the preparation of state and local government financial reports.

To be awarded the Certificate of Achievement, a government unit must publish an easily readable and efficiently organized Annual Comprehensive Financial Report whose contents meet or exceed the program standards. This report must satisfy both generally accepted accounting principles and applicable legal requirements.

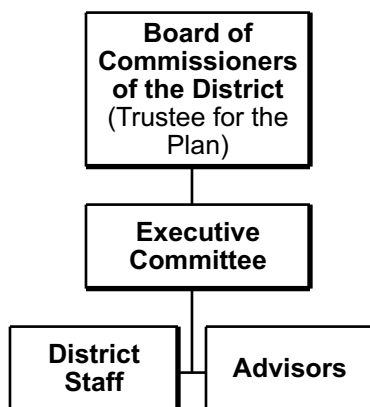
A Certificate of Achievement is valid for only one year. The Trust received a Certificate of Achievement for the last fifteen years. We believe our current report continues to conform to the Certificate of Achievement program requirements; we are therefore submitting it to the GFOA to determine its eligibility for a Certificate of Achievement for the year ending December 31, 2022.

Respectfully submitted,

A handwritten signature in cursive script that reads "Mary Ann Boyle".

Mary Ann Boyle, Treasurer
Metropolitan Water Reclamation District of Greater Chicago

ORGANIZATION CHART AND PRINCIPAL OFFICIALS
as of May 12, 2023



BOARD OF COMMISSIONERS OF THE DISTRICT

The District, acting through its Board of Commissioners, serves as Trustee and Fiduciary for the Plan.

Kari K. Steele, *President*
Kimberly Du Buclet, *Vice President*
Marcelino Garcia, *Chairman of Finance*
Yumeka Brown
Cameron Davis
Patricia Theresa Flynn
Daniel Pogorzelski
Eira L. Corral Sepúlveda
Mariyana T. Spyropoulos

EXECUTIVE COMMITTEE

Marcelino Garcia, Chairman of Finance
Mary Ann Boyle, Treasurer of the District
Jacqueline Torres, Clerk/Director of Finance

DISTRICT STAFF

Treasury Department – Mary Ann Boyle, Treasurer
Finance Department – Jacqueline Torres, Clerk/Director of Finance
Department of Human Resources – Thaddeus Kosowski, Acting Director of Human Resources
Law Department – Susan T. Morakalis, General Counsel

ADVISORS

Actuary: Foster & Foster, Inc. An actuarial valuation is required to be performed biennially for the Trust. The next valuation date is December 31, 2023.

Investment Advisor: Marquette Associates, Inc. See further detail in the summary schedule of investment fees on page 42.

FINANCIAL SECTION

Independent Auditors' Report

To the Members of the Board of Commissioners of
Metropolitan Water Reclamation District of Greater Chicago
Trustee and Fiduciary for the MWRD Retiree Health Care Trust

Opinion

We have audited the accompanying financial statements of the Metropolitan Water Reclamation District Retiree Health Care Trust (OPEB Trust), a component unit of the Metropolitan Water Reclamation District of Greater Chicago, as of and for the year ended December 31, 2022, and the related notes to the financial statements, which collectively comprise the OPEB Trust's basic financial statements as listed in the table of contents.

In our opinion, the accompanying financial statements referred to above present fairly, in all material respects, the financial position of the OPEB Trust as of December 31, 2022, and the changes in financial position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinion

We conducted our audit in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the OPEB Trust and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America; and for the design, implementation and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the OPEB Trust's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

Auditors' Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the OPEB Trust's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the OPEB Trust's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings and certain internal control-related matters that we identified during the audit.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and required supplementary information as listed in the table of contents be presented to supplement the basic financial statements. Such information is the responsibility of management and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Supplementary Information

Our audit for the year ended December 31, 2022 was conducted for the purpose of forming an opinion on the financial statements that collectively comprise the OPEB Trust's basic financial statements. The supplementary information for the year ended December 31, 2022 as listed in the table of contents is presented for purposes of additional analysis and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements for the year ended December 31, 2022, and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the supplementary information is fairly stated in all material respects, in relation to the basic financial statements as a whole for the year ended December 31, 2022.

We also previously audited, in accordance with auditing standards generally accepted in the United States of America, the basic financial statements of the OPEB Trust as of and for the year ended December 31, 2021 (not presented herein), and have issued our report thereon dated May 17, 2022, which contained an unmodified opinion on the basic financial statements. The supplementary information' for the year ended December 31, 2021 is presented for purposes of additional analysis and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the 2021 basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the 2021 basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare those basic financial statements or to those basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the supplementary information' is fairly stated in all material respects in relation to the basic financial statements as a whole for the year ended December 31, 2021.

Other Information

Management is responsible for the other information included in the annual report. The other information comprises the introductory section, investment section, actuarial section and statistical section but does not include the basic financial statements and our auditors' report thereon. Our opinion on the basic financial statements does not cover the other information, and we do not express an opinion or any form of assurance thereon.

In connection with our audit of the basic financial statements, our responsibility is to read the other information and consider whether a material inconsistency exists between the other information and the basic financial statements, or the other information otherwise appears to be materially misstated. If, based on the work performed, we conclude that an uncorrected material misstatement of the other information exists, we are required to describe it in our report.

Report on Summarized Comparative Information

We have previously audited the OPEB Trust's 2021 financial statements, and we expressed unmodified audit opinions on the basic financial statements in our report dated May 17, 2022. In our opinion, the summarized comparative information presented herein as of and for the year ended December 31, 2021, is consistent, in all material respects, with the audited financial statements from which it has been derived.

Baker Tilly US, LLP

Chicago, Illinois
May 12, 2023

Metropolitan Water Reclamation District Retiree Health Care Trust

A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago

FINANCIAL SECTION

Management's Discussion and Analysis (Unaudited)

Year Ended December 31, 2022 (With comparative amounts for prior year)

MANAGEMENT'S DISCUSSION AND ANALYSIS (Unaudited)

This section presents management's discussion and analysis of the Trust's financial performance for the years ended December 31, 2022 and 2021, and provides an introduction to the financial statements of the Trust. It is designed as required supplementary information which focuses on current activities, resulting changes and current known facts. It should be read in conjunction with the letter of transmittal found in the Introductory Section of this report.

Overview and Analysis of the Financial Statements

The Financial Section of the Trust's Annual Comprehensive Financial Report consists of the following parts: the independent auditor's report; management's discussion and analysis; the financial statements, including notes to the financial statements; required supplementary information and supplementary information.

The Trust prepared its financial statements on the accrual basis of accounting in accordance with accounting principles generally accepted in the United States of America. The Statements of Fiduciary Net Position includes all of the Trust's assets and liabilities and provides information about the nature and amount of investments available to satisfy the retiree health care benefits of the Trust. All additions to and deductions from the net position restricted for OPEB for retiree health care benefits are accounted for in the Statements of Changes in Fiduciary Net Position. These statements measure the Trust's success in increasing the net position available for retiree health care benefits.

On August 23, 2007, the General Assembly of the State of Illinois approved the amendment to the Metropolitan Water Reclamation District Act (70 ILCS 2605/9.6d), which authorized and set forth the requirements for the establishment of the District Other Postemployment Benefit Trust ("OPEB Trust"), for the purpose of providing for the funding and payment of health and other fringe benefits for retired, disabled, or terminated employees of the District or for their dependents and beneficiaries as defined by the Plan. The Trust was established December 6, 2007.

The OPEB Trust implemented Statement No. 74 of the Governmental Accounting Standards Board (GASB), *Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans*, beginning in fiscal year ended December 31, 2017. The financial reporting standard modified the Trust's notes to the basic financial statements and required supplementary information as well as required the calculation of a total OPEB liability and a net OPEB liability.

The Statement of Fiduciary Net Position and Statement of Changes in Fiduciary Net Position measure the value of the plan's net position and the changes to it. As of December 31, 2022, the plan net position decreased to \$264,148,401 from \$311,163,146 at December 31, 2021.

Metropolitan Water Reclamation District Retiree Health Care Trust

A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago

FINANCIAL SECTION

Management's Discussion and Analysis (Unaudited)

Year Ended December 31, 2022 (With comparative amounts for prior year)

FIDUCIARY NET POSITION AND CHANGES IN FIDUCIARY NET POSITION

The following table summarizes the Plan's Statements of Fiduciary Net Position:

	December 31, 2022	December 31, 2021	Change	Percent Change
Assets				
Investments at Fair Value	\$ 264,038,504	\$ 311,103,144	\$ (47,064,640)	(15.1)%
Accrued Interest Receivable	138,024	73,752	64,272	87.1 %
Total Assets	264,176,528	311,176,896	(47,000,368)	(15.1)%
Liabilities				
Accounts Payable	28,127	13,750	14,377	104.6 %
Total Liabilities	28,127	13,750	14,377	104.6 %
Net Position Restricted for OPEB	\$ 264,148,401	\$ 311,163,146	\$ (47,014,745)	(15.1)%

In 2022 the decrease in net position restricted for OPEB was mainly due to unrealized losses on the market value of investments, as explained below. The Trust's time-weighted investment rate of return was -16.5% for the year, and 4.1% for the five years ended December 31, 2022.

The following table summarizes the Plan's Statements of Changes in Fiduciary Net Position:

	Year Ended December 31, 2022	Year Ended December 31, 2021	Change	Percent Change
Additions:				
Contributions by Employer	\$ 15,719,095	\$ 14,663,890	\$ 1,055,205	7.2 %
Total Contributions	15,719,095	14,663,890	1,055,205	7.2 %
Net Appreciation (Depreciation) in Fair Value of Investments	(57,718,065)	30,605,436	(88,323,501)	(288.6)%
Interest and Dividends	5,807,557	5,448,884	358,673	6.6 %
Total Investment Return (Loss)	(51,910,508)	36,054,320	(87,964,828)	(244.0)%
Less Investment Expenses	(59,333)	(55,000)	(4,333)	(7.9)%
Net Investment Income (Loss)	(51,969,841)	35,999,320	(87,969,161)	(244.4)%
Total Additions	(36,250,746)	50,663,210	(86,913,956)	(171.6)%
Deductions:				
Retiree Health Care Benefits	10,719,095	9,663,890	1,055,205	10.9 %
Administrative Expenses	44,904	41,639	3,265	7.8 %
Total Deductions	10,763,999	9,705,529	1,058,470	10.9 %
Net Increase (Decrease)	(47,014,745)	40,957,681	(87,972,426)	(214.8)%
Net Position Restricted For OPEB				
Beginning of year	311,163,146	270,205,465	40,957,681	15.2 %
End of year	\$ 264,148,401	\$ 311,163,146	\$ (47,014,745)	(15.1)%

Metropolitan Water Reclamation District Retiree Health Care Trust

A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago

FINANCIAL SECTION

Management's Discussion and Analysis (Unaudited)

Year Ended December 31, 2022 (With comparative amounts for prior year)

Additions

Additions are accumulated through employer and retiree contributions, and returns are provided by invested assets. Total additions for 2022 were negative \$36.3 million compared to \$50.7 million in 2021, a decrease of \$87.0 or -171.6%. Employer contributions were \$15.7 million for 2022, representing an increase of \$1.1 million or 7.2%. Advance funding contributions made by the District were \$5.0 million in 2022 and 2021. Through December 31, 2022, a total of \$152.4 million has been contributed to the Trust. The 2022 net investment loss of \$52.0 million was mainly due to the net depreciation in fair value of investments of \$57.7 million offset by dividends earned on investments of \$5.8 million. Net investment income (loss) is a combination of interest and dividend income, along with gains and losses on investments held at year-end. Overall the disappointing -16.5% investment return for 2022 reflected a -17.7% return on equity investments and a -14.6% return on fixed income investments. During 2022, the financial markets experienced one of the overall worst years in history, mainly due to an inflation surge and a major global supply chain crisis. Many U.S. equity indices began 2022 with their biggest quarterly decline in two years, as inflation and the prospect of increasingly restrictive monetary policy hit growth-oriented stocks. The second quarter saw domestic equities post their worst first half in over 50 years. Declines were felt across the market spectrum and continued through the end of the third quarter. The Trust however continues to be well diversified, highly liquid and transparent, which is anticipated to help the portfolio navigate through today's market volatility and protect on the downside.

Deductions

The expenses paid by the Trust are retiree health care benefit payments and administrative expenses. Total deductions for 2022 were \$10.8 million compared to \$9.7 million in 2021, an increase of \$1.1 million or 10.9%. Benefit expenses increased 10.9% from 2021 due to medical cost inflation and claims experience returning to more normal levels. Total administrative expenses represent the cost of fiduciary insurance for the Trustee, along with external audit fees.

Return on Investments and Asset Allocation

Comparative investment returns by asset allocation are as follows:

Asset Class	2022 Percent of Investments	2021 Percent of Investments	2022 Return on Invested Assets	2021 Return on Invested Assets
Domestic Equity	43%	49%	-20.2%	24.1%
International Equity	20%	20%	-11.7%	11.6%
Domestic Fixed Income	34%	28%	-14.6%	-1.4%
Money Market Funds	3%	3%	1.3%	0.0%
Total	100%	100%	-16.5%	13.1%

The decrease in value of the Trust's invested assets was 15.1%. The return on invested assets for 2022 using the Modified Dietz approach was -16.5%, calculated on a quarterly compounded basis. The disparity between the percentage return on investments and the increase in asset

Metropolitan Water Reclamation District Retiree Health Care Trust

A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago

FINANCIAL SECTION

Management's Discussion and Analysis (Unaudited)

Year Ended December 31, 2022 (With comparative amounts for prior year)

value reflects the impact and timing of \$5.0 million advance funding contribution made during 2022.

Funded Status

The Trust's funded status is the ratio of the actuarial value of assets to the actuarial liability and is a measure of the ability to pay all future benefits from the assets held in the Trust. The Plan Fiduciary Net Position as a percentage of the Total OPEB Liability was 75.0% as of December 31, 2022, representing a decrease from 92.2% as of December 31, 2021. The decrease in the ratio was due to significant investment losses in 2022 resulting from global financial instability in 2022. Despite this decrease, the District remains confident it is well on its way to meeting its goals of providing long term financial stability to the Plan.

Required Supplementary Information

To provide actuarial determined information about the Trust, this report includes schedules of historical trend information in the Required Supplementary Information (RSI) section as required by accounting standards. The RSI provides a Schedule of Changes in the District's Net OPEB Liability and Related Ratios, a Schedule of District Contributions and Related Notes, and a Schedule of Investment Returns. The RSI section complies with the Statement 74, *Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans* from the Governmental Accounting Standards Board (GASB). The RSI section displays changes for the Trust's Net OPEB Liability and related ratios, contributions related to payrolls, and money-weighted investment returns for the Trust.

The Actuarial Assumptions presented were determined as part of the actuarial valuation at December 31, 2021. An actuarial valuation is required to be performed biennially for the Trust. The next valuation date is December 31, 2023. For the years in which a valuation is not completed, a required roll-forward valuation is completed from the latest actuarial valuation to compute the updated Net OPEB liability. Please note that the actuarial information is based on assumptions about future events, and therefore, the figures presented are estimates.

Other Information

This report also includes an Investment Section, an Actuarial Section, and a Statistical Section. The Investment Section contains the investment consultant report, a statement on investment authority and responsibility, an outline of investment policies, reports on investment objectives, allocation, performance, assets, and analytics, a schedule of investment returns, and a summary schedule of investment fees. The Actuarial Section contains the Actuarial Certification Letter, an introduction, a summary of assumptions and methods, and other actuarial information. The statistical section consists of a description of the statistical schedules, member statistics, and the change in net positions, revenues by source, schedule of return on investments, schedule of employer contributions, and schedule of expenses by type.

Metropolitan Water Reclamation District Retiree Health Care Trust
A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago

FINANCIAL SECTION

Management's Discussion and Analysis (Unaudited)

Year Ended December 31, 2022 (With comparative amounts for prior year)

CONTACT INFORMATION

This Report is intended to provide a general overview of the Metropolitan Water Reclamation District Retiree Health Care Trust. Questions or requests for additional information should be addressed to the Trust at 100 East Erie Street, Chicago, Illinois 60611, Attn: Treasurer, or call (312) 751-5150.

Metropolitan Water Reclamation District Retiree Health Care Trust
A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago

FINANCIAL SECTION
Financial Statements

Statements of Fiduciary Net Position
December 31, 2022
(With comparative amounts for prior year)

	<u>2022</u>	<u>2021</u>
Assets		
Investments at Fair Value		
Fixed Income Mutual Funds	\$ 90,210,102	\$ 86,355,436
Equity Mutual Funds	165,151,329	215,231,633
Money Market Funds	8,677,073	9,516,075
Total Investments	<u>264,038,504</u>	<u>311,103,144</u>
Accrued Interest Receivable	138,024	73,752
Total Assets	<u>264,176,528</u>	<u>311,176,896</u>
Liabilities		
Accounts Payable	28,127	13,750
Total Liabilities	<u>28,127</u>	<u>13,750</u>
Net Position Restricted for OPEB	<u>\$ 264,148,401</u>	<u>\$ 311,163,146</u>

See accompanying notes to the Financial Statements

Metropolitan Water Reclamation District Retiree Health Care Trust
A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago

FINANCIAL SECTION
Financial Statements

Statements of Changes in Fiduciary Net Position
Year Ended December 31, 2022
(With comparative amounts for prior year)

	<u>2022</u>	<u>2021</u>
Additions:		
Contributions by Employer	\$ 15,719,095	\$ 14,663,890
Total Contributions	<u>15,719,095</u>	<u>14,663,890</u>
Net Appreciation (Depreciation) in Fair Value of Investments	(57,718,065)	30,605,436
Interest and Dividends	<u>5,807,557</u>	<u>5,448,884</u>
Total Investment Return (Loss)	<u>(51,910,508)</u>	<u>36,054,320</u>
Less Investment Expenses	<u>(59,333)</u>	<u>(55,000)</u>
Net Investment Income (Loss)	<u>(51,969,841)</u>	<u>35,999,320</u>
Total Additions	<u>(36,250,746)</u>	<u>50,663,210</u>
Deductions:		
Retiree Health Care Benefits	10,719,095	9,663,890
Administrative Expenses	<u>44,904</u>	<u>41,639</u>
Total Deductions	<u>10,763,999</u>	<u>9,705,529</u>
Net Increase (Decrease)	(47,014,745)	40,957,681
Net Position Restricted for OPEB		
January 1	311,163,146	270,205,465
December 31	<u>\$ 264,148,401</u>	<u>\$ 311,163,146</u>

See accompanying notes to the Financial Statements

Metropolitan Water Reclamation District Retiree Health Care Trust
A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago

FINANCIAL SECTION
Year Ended December 31, 2022

1. Summary of Significant Accounting Policies

a. Reporting Entity

Pursuant to 70 ILCS 2605/9.6d, the Board of Commissioners (the Board) of the Metropolitan Water Reclamation District of Greater Chicago (District) adopted the Plan and Trust effective December 6, 2007, to recognize the contribution made to the District by its Employees. Its purpose is to reward them by providing benefits for those employees who shall qualify hereunder and their eligible spouses and dependents as defined by the Plan.

The District, acting through its nine-member Board of Commissioners, serves as Trustee and Fiduciary for the Trust. The Board members are elected at large for six-year terms. The terms are staggered so that three commissioners are elected every two years. The Board authorizes all policies which govern funding and plan benefits.

The intention of the District is that the Plan satisfies the requirements of Section 115 of the Internal Revenue Code of 1986, as amended. A private letter ruling regarding the exclusion of the Trust's income from gross income under Section 115 has been received from the Internal Revenue Service.

The Metropolitan Water Reclamation District Retiree Health Care Trust (Trust) is a component unit of the District and, as such, is included in the District's financial statements. As defined by accounting principles generally accepted in the United States of America established by the Governmental Accounting Standards Board (GASB), the financial reporting entity consists of a primary government, as well as its component units, which are legally separate organizations for which the elected officials of the primary government are financially accountable, or for which the nature and significance to the primary government are such that exclusion would cause the reporting entity's financial statements to be misleading or otherwise incomplete. Based on the required criteria, the Trust has no component units.

b. Basis of Accounting

The Trust's financial statements are prepared using the accrual basis of accounting. Employer contributions to the Trust are recognized when due and the employer has made a formal commitment to provide the contributions. Benefits and refunds are recognized when due and payable in accordance with the terms of the Plan.

Metropolitan Water Reclamation District Retiree Health Care Trust
A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago

FINANCIAL SECTION
Year Ended December 31, 2022

c. Investments

The Trust is authorized under State Statute 70 ILCS 2605/9.6d. In accordance with the Statute, the Trust funds shall be managed by the District Treasurer in any manner deemed appropriate subject only to the prudent person standard. The Trust initially adopted its investment policy on November 19, 2009, which was most recently revised on November 15, 2018.

Investments are reported at fair value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Changes in the carrying value of investments, resulting in realized and unrealized gains or losses, are reported as a component of investment income in the statement of changes in plan net position.

The Trust's assets are invested in fixed income and equity mutual funds traded on national securities exchanges. The fair value of mutual fund units traded on national securities exchanges is the last reported sales price on the last business day of the fiscal year of the Trust. Purchases and sales of mutual fund units are accounted for on the trade dates. The Trust's assets are also invested in money market funds with maturities of less than one year, reported at fair value.

d. Management's Use of Estimates

The preparation of financial statements requires management to make estimates and assumptions that affect the reported amount of assets, liabilities, additions and deductions. Actual results could differ from those estimates. The District uses an actuary to determine the actuarial accrued liability for post-retirement benefits and to determine the actuarially required contribution and annual OPEB expense.

e. Prior Year Comparative Information

The financial statements include certain prior year summarized comparative information, but not at the level of detail required for a presentation in conformity with accounting principles generally accepted in the United States of America. Accordingly, such information should be read in conjunction with the Trust's financial statements as of and for the year ended December 31, 2021, from which the summarized comparative information was derived.

Metropolitan Water Reclamation District Retiree Health Care Trust
A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago

FINANCIAL SECTION
Year Ended December 31, 2022

2. Plan Description

The Metropolitan Water Reclamation District's Retiree Health Care Plan (Plan) is a single-employer defined benefit postemployment health care plan that covers eligible retired employees of the District. The Plan, which is administered by the District, allows employees who retire and meet certain eligibility requirements to continue medical and prescription drug coverage as a participant in the District's plan.

The District, acting through its Board of Commissioners, serves as Trustee and Fiduciary for the Trust. The Trustee takes, holds, invests, administers, and distributes contributions and assets paid or delivered to the Trust. All rights, title and interest in and to the assets of the Trust Fund are at all times vested exclusively in the Plan. All contributions received together with the income from the contributions are held, managed, and administered by the Trustee pursuant to the terms of the Plan without distinction between principal and income and without liability for the payment of interest.

The BOC appointed an Executive Committee, comprised of the Chairman of Finance, the Treasurer, and the Director of Finance, to be responsible for certain activities with regard to the Trust, subject to the approval of the BOC. These activities include but are not limited to: recommendation of an investment advisor; acceptance or rejection of investment recommendations from the investment advisor; and certain financial reporting responsibilities.

a. Membership

Membership of the Trust consisted of the following at December 31, 2021, the date of the most recent actuarial valuation:

Inactive Plan Members Currently Receiving Benefits	1,552
Beneficiaries of Deceased Plan Members Currently Receiving Benefits	407
Inactive Plan Members Entitled to But Not Receiving Benefits	31
Active Plan Members	<u>1,727</u>
Total Membership	<u><u>3,717</u></u>

b. Benefits Provided

Retiree health care benefits are defined as post-retirement medical and prescription drug coverage only; no dental, life, or disability benefits are provided by the Plan. Such benefits are provided by the District through either a self-insured or fully-insured healthcare plan for non-Medicare eligible retirees, while Medicare eligible retirees are provided a fully-insured Medicare Advantage Plan. The benefit levels are the same as

**Metropolitan Water Reclamation District Retiree Health Care Trust
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**FINANCIAL SECTION
Year Ended December 31, 2022**

those provided to active employees. Spouses and dependents of eligible retirees are also eligible for medical coverage in accordance with the Plan. All full-time employees of the District with at least ten actual years of service are eligible to receive postemployment health care benefits and coverage for retirees is provided for life. The Trust was established to advance fund benefits provided under the Plan. The benefit terms may only be amended by the authority of the District's Board of Commissioners. All classes of employees receive the same Plan benefits.

c. Eligibility for Insurance Coverage

Retirees who meet the age and service requirements are eligible for medical and prescription drug benefits in accordance with the Plan. Employees must have at least ten actual years of service with the District, and coverage does not commence until the member begins receiving payments from the District's Retirement Fund. District Commissioners must have at least six years of service as a Commissioner of the District. Eligibility age is based on the employee's hire date as follows: age 50 for those hired before June 13, 1997, and age 55 for those hired between June 13, 1997 and January 1, 2011, and age 63 for those hired after January 1, 2011.

d. Contributions

State Statute 70 ILCS 2605/9.6d is the legislation establishing the Trust and gives the District Board of Commissioners (BOC) discretionary authority to determine contribution amounts to be paid by the District. In accordance with the legislation, the BOC may lawfully agree with the Trustee to a binding level of funding for periods of time not to exceed 5 fiscal years. As of the date of this report, the BOC has not entered into any such agreements. In addition, the Trust documents permit employees of the District to contribute money to provide for such benefits. No contribution is required at this time.

Under the terms of the Plan, the retired plan members and beneficiaries currently receiving benefits are required to contribute specified amounts monthly toward the cost of health insurance premiums. The District is required to contribute the balance of the current premium and claims costs. Contributions by the District in excess of the employer portion of current premiums and claims costs represent advance funding in accordance with the funding policy. The District has contributed \$152,400,000 to the Trust as the advance funding amount to date.

The retiree premiums are set based on prior year claims incurred and become effective January 1st each year. The retiree contribution rate is based on the contribution rate policy established by the Board of Commissioners. This policy required a 2.5% increase in the contribution rate on January 1st of each year until the

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Year Ended December 31, 2022

contribution rate reached 50.0%. In future years, contributions are assumed to increase at the same rate as actual claims expenditures.

e. Retiree Health Care Benefit Costs

Benefit costs are post-retirement medical and prescription drug coverage benefit premiums and claims paid by the District.

f. Administrative Costs

Administrative costs of the Trust are financed primarily through investment earnings; however, the Trust is not prohibited from expending contributions for administrative purposes.

3. Investments

a. Authorization

As authorized under State Statute 70 ILCS 2605/9.6d, the Trust's investment function is managed by the District's Treasurer, with the District, through its Board of Commissioners, serving as Trustee and Fiduciary for the Trust. Per the Trust agreement, the Trustee has total discretion and authority with regard to the investment of the assets of the Trust to which it holds title. The Trustee is authorized and empowered to delegate to the District Treasurer and other individuals as deemed appropriate, the following powers, rights and duties, each of which shall be subject to the approval of the Trustee:

- (1) To purchase and cause stocks, bonds, exchange-traded funds, mutual funds, or other investments to be registered in its name as Trustee or in the name of a nominee, or to take and keep the same unregistered;
- (2) To employ such agents, advisors and legal counsel as it deems advisable or proper in connection with its duties and to pay such agents, advisors and legal counsel a reasonable fee. The Trustee shall not be liable for the acts of such agents, advisors and legal counsel for the acts done in good faith and in reliance upon the advice of such agents, advisors and legal counsel, provided it has used reasonable care in selecting such agents, advisors and legal counsel;

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Year Ended December 31, 2022

- (3) To exercise where applicable and appropriate any rights of ownership in any contracts of insurance in which any part of the Trust may be invested and to pay the premiums thereon; and
- (4) To buy, sell, convey or transfer, invest and reinvest any part of each and every kind of investment listed above in Section (1).

b. Investment Policy

The Trust's investment policy was initially adopted on November 19, 2009, designed to control risk and provide guidance in establishing a prudent investment strategy that serves the long-term needs of the Trust and its beneficiaries. The investment policy was most recently revised on November 15, 2018 to allow for asset allocation targets that are structured to provide competitive performance while minimizing the potential for losses. The current policy allows for a range of exposure to four aggregate asset classes, including domestic equities, international equities, fixed income securities, along with money market funds and cash.

c. Concentration of Credit Risk

There are no significant investments in any one issuer that represent 5% or more of the Trust's investments.

d. Annual Money-Weighted Rate of Return

For the year ended December 31, 2022 the Trust's annual money-weighted rate of return on investments, net of investment expense, was -16.43%. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts invested, while the time-weighted rate of return presented elsewhere tracks overall performance of the Trust without adjusting for changes in amounts invested.

e. Interest Rate Risk

The Trust's benefit liabilities extend many years into the future, and the Trust's policy is to maintain a long-term focus on its investment decision-making process. Fixed income investments susceptible to interest rate risk are monitored to prevent such investments from exceeding established allocation targets.

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Year Ended December 31, 2022**

At December 31, 2022, the Trust's investments in fixed income mutual funds stated at fair value with weighted average maturities are as follows:

Fund Name	Fair Value	Percentage	Weighted Average Maturities (Years)
Dodge & Cox Income Fund	\$ 40,248,714	44.6%	10.8
Payden Core Bond Fund	12,910,923	14.3%	9.0
Western Asset Core Plus Bond Fund	37,050,465	41.1%	13.5
		<u>100.0%</u>	

The Trust's net fair value of money market investment funds was \$8,677,073 as of December 31, 2022 having a weighted-average maturity of less than one year.

f. Credit Risk

Generally, credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. This is measured by the assignment of a rating by a nationally recognized statistical rating organization. The Trust's Investment Policy requires a minimum of 75% of the fixed income holdings of an actively managed fixed income mutual fund be of investment grade quality or higher at purchase; rated no lower than "Baa" by Moody's and no lower than "BBB" by Standard and Poor's. The Trustee, at its discretion, may impose a higher standard on an individual investment's circumstances or as investment objectives dictate. Fixed income purchases shall be limited to obligations issued or guaranteed as to principal and interest by the U.S. Government, Canadian Government, or any agency or instrumentality thereof, or to corporate and municipal issues.

As of December 31, 2022, the Trust's investments in fixed income mutual funds were not individually rated by a nationally recognized statistical rating organization.

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FINANCIAL SECTION
Year Ended December 31, 2022

The following are the percentages of fixed income investment portfolio securities within each credit-quality rating as of December 31, 2022:

Credit Rating (1)	Fund Name		
	Dodge & Cox Income Fund	Payden Core Bond Fund	Western Asset Core Plus Bond Fund
AAA	48.1%	64.0%	44.4%
AA	5.7%	3.0%	5.9%
A	6.1%	10.0%	14.9%
BBB	29.4%	18.0%	22.4%
BB	9.1%	—%	7.1%
B	1.5%	—%	3.8%
Below B	0.1%	—%	1.5%
Not Rated	—%	5.0%	—%
Total	100.0%	100.0%	100.0%

(1) Provided by Morningstar, Inc. Report details the percentage of fixed-income securities that fall within each credit-quality rating as assigned by Standard & Poor's or Moody's credit rating agencies.

The Trust's investments in money market funds were not individually rated by a nationally recognized statistical rating organization as of December 31, 2022.

g. Foreign Currency Risk

The Trust's Investment Policy requires that it disclose any investment denominated in a foreign currency. Exposure to foreign currency risk is limited to the international investment allocation target maximum of 25% of the fair value of the investment portfolio. As of December 31, 2022, the Trust had no investments denominated in foreign currency.

As of December 31, 2022, the Trust's investments in international equity mutual funds stated at fair value are as follows:

Fund Name	Fair Value
Fidelity International Index Fund	\$ 38,997,936
Vanguard Global Minimum Volatility	14,295,017
	\$ 53,292,953

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FINANCIAL SECTION
Year Ended December 31, 2022

h. Custodial Credit Risk

The Trust's Investment Policy requires that all investments and investment collateral be held in safekeeping by a third party custodial institution, as designated by the Treasurer, in the Trust's name. Custodial credit risk is the risk that, in the event of the failure of the counterparty, the Trust will not be able to recover the value of its investments or collateral securities which are in the possession of the outside party. All cash balances maintained at banks are required to be collateralized with permitted U.S. Government Securities in an amount equal to 105% (at market) of the monies on deposit. Cash awaiting reinvestment in the Trust's investment account is protected up to \$250,000 under coverage by the Securities Investor Protection Corporation (SIPC). As of December 31, 2022, the Trust had no exposure to custodial credit risk since all investments were registered or held in the Trust's name.

i. Fair Value Measurement

Investment valuations are as of December 31, 2022. The values of the Trust's investments may have changed significantly after year end as the result of investment markets.

GASB Statement No. 72, *Fair Value Measurement and Application*, provides guidance for determining a fair value measurement for reporting purposes and applying fair value to certain investments and disclosures related to all fair value measurements.

The Trust categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation input used to measure the fair value of the asset.

- Level 1 investments reflect quoted prices in active markets for identical assets.
- Level 2 investments reflect significant other observable inputs which include quoted prices for similar assets or liabilities in active markets; quoted prices for identical assets or liabilities in markets that are not active; or using other inputs such as interest rates and yield curves at commonly quoted intervals, implied volatilities and credit spreads or market-corroborated inputs.
- Level 3 investments are valued at significant unobservable inputs.

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Year Ended December 31, 2022

The carrying amount of investments and fair value hierarchy of the Trust is shown in the following schedule as of December 31, 2022:

Fair Value of Investments	December 31, 2022	Fair Value Measurements Using		
		Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Domestic Equity Funds	\$ 111,858,376	\$ 111,858,376	\$ —	\$ —
International Equity Funds	53,292,953	53,292,953	—	—
Domestic Fixed Income Funds	90,210,102	90,210,102	—	—
Money Market Funds	8,677,073	8,677,073	—	—
Total Fair Value of Investments	<u>\$ 264,038,504</u>	<u>\$ 264,038,504</u>	<u>\$ —</u>	<u>\$ —</u>

Investments classified in Level 1 of the fair value hierarchy are valued using prices quoted in active markets for those securities. The Trust does not have Level 2 or Level 3 investments.

4. OPEB Liability of the District

a. Net OPEB Liability

The information included in the report is based on the actuarial valuation performed as of December 31, 2021. Actuarial valuations of the total OPEB liability are required to be completed every two years for the Trust. The total OPEB liability is required to be based on updated calculations to roll-forward amounts from the most recent actuarial valuation for fiscal year-ends when an actuarial valuation is not performed. The next valuation date is December 31, 2023.

The components of the net OPEB Liability of the District as of December 31, 2022, were as follows:

Total OPEB Liability	\$ 352,428,624
Plan Fiduciary Net Position	<u>(264,148,401)</u>
District's Net OPEB Liability	<u>\$ 88,280,223</u>
Plan Fiduciary Net Position as a Percentage of the Total OPEB Liability	<u>74.95%</u>

See the Schedule of Changes in the District's Net OPEB Liability and Related Ratios on page 25 of the required supplementary information for additional information related to the Plan.

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**FINANCIAL SECTION
Year Ended December 31, 2022**

b. Actuarial Assumptions

The Total OPEB Liability was determined by an actuarial valuation as of December 31, 2021 and updated to December 31, 2022, using the following actuarial methods and assumptions:

Actuarial Valuation Date	December 31, 2021
Cost Method	Entry Age Normal
Inflation	2.50%
Salary Increases	Varies by Service
Investment Rate of Return (net of investment expense, including inflation)	6.50%
Healthcare Cost Trend Rates	Initial rate of 7.5% for fiscal year 2022, grading down to the ultimate trend rate of 4.0% in fiscal year 2075
Asset Valuation Method	Fair Value

For all employees, mortality rates were based on the RP-2000 combined health mortality tables with fully generational mortality improvements using scale AA, with rates for female members increased by a factor of 1.04.

The information included in the report is based on the actuarial valuation performed as of December 31, 2021. Actuarial valuations of the total OPEB liability are required to be completed every two years for the Trust. The total OPEB liability is required to be based on update calculations to roll-forward amounts from the most recent actuarial valuation for fiscal year-ends when an actuarial valuation is not performed. The next valuation date is December 31, 2023.

c. Long-Term Expected Rate of Return

The long-term expected rate of return on OPEB Plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of investment expenses and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the target asset allocation as of December 31, 2022 are summarized in the following table:

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Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
Broad Fixed Income	20.0%	4.9%
Core Plus Fixed Income	15.0%	5.8%
Total Fixed Income	35.0%	
Large-Cap Core	17.5%	6.8%
Large-Cap Growth	7.5%	6.8%
Mid-Cap Core	7.5%	7.3%
Smid-Cap Core	5.0%	7.7%
Small-Cap Core	7.5%	7.9%
Total U.S. Equity	45.0%	
Global Low Volatility	5.0%	6.8%
Non-U.S. Large-Cap Core	15.0%	7.5%
Total Non-U.S. Equity	20.0%	
Total-All Asset Classes	100.0%	

The Trust's long-term expected rate of return calculated using the method described above exceeds 6.5% (assuming 2.5% inflation).

d. Discount Rate

The expected rate of return used to measure the total OPEB liability was 6.5%. The projection of cash flows used to determine the discount rate assumed that current District contributions will be made at the current contribution rate. The District has adopted a funding policy as of October 2, 2014 with the intention of fully funding the plan by 2026 and maintaining 100% funding thereafter. The District has shown they are following the funding policy completely and will continue to do so. Therefore, the long-term expected rate of return on investments was used to discount projected benefit payments for all projected benefit payments, and the single equivalent was 6.5%.

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Year Ended December 31, 2022**

e. Rate Sensitivity

The following is a sensitivity analysis of the net OPEB liability to changes in the discount rate and to the healthcare cost trend rate.

The table below presents the Net OPEB Liability of the District calculated using the discount rate of 6.5% as well as what the District's Net OPEB Liability would be if it were calculated using a discount rate that is one percentage point lower (5.5%) or one percentage point higher (7.5%) than the current discount rate:

	1% Decrease (5.5%)	Current Discount Rate (6.5%)	1% Increase (7.5%)
Net OPEB Liability (Asset) \$	134,723,919	\$ 88,280,223	\$ 49,822,410

The table below presents the Net OPEB Liability of the District calculated using the healthcare cost trend rate of 4.0% to 7.5% as well as what the District's Net OPEB Liability would be if it were calculated using a healthcare cost trend rate that is one percentage point lower (3.0% to 6.5%) or one percentage point higher (5.0% to 8.5%) than the current rate:

	1% Decrease (3.0% to 6.5%)	Healthcare Cost Trend Rates (4.0% to 7.5%)	1% Increase (5.0% to 8.5%)
Net OPEB Liability (Asset) \$	43,621,828	\$ 88,280,223	\$ 142,144,869

REQUIRED SUPPLEMENTARY INFORMATION

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REQUIRED SUPPLEMENTARY INFORMATION

SCHEDULE OF CHANGES IN THE DISTRICT'S NET OPEB LIABILITY AND RELATED RATIOS
Last Six Fiscal Years

	2022	2021	2020	2019	2018	2017
Total OPEB Liability						
Service Cost	\$ 3,659,064	\$ 5,104,413	\$ 4,861,346	\$ 5,540,295	\$ 5,314,432	\$ 5,097,776
Interest	21,841,986	20,700,322	19,763,742	20,851,553	20,011,894	19,260,038
Differences between Expected and Actual Experience	—	(15,706,502)	—	6,818,596	—	—
Changes of Assumptions	—	19,094,366	—	(37,290,450)	—	—
Benefit Payments	(10,719,095)	(9,663,890)	(11,229,934)	(12,700,092)	(12,570,679)	(13,430,657)
Net Change in Total OPEB Liability	14,781,955	19,528,709	13,395,154	(16,780,098)	12,755,647	10,927,157
Total OPEB Liability						
Beginning of Year	337,646,669	318,117,960	304,722,806	321,502,904	308,747,257	297,820,100
End of Year	\$ 352,428,624	\$ 337,646,669	\$ 318,117,960	\$ 304,722,806	\$ 321,502,904	\$ 308,747,257
Change in Fiduciary Net Position						
Employer Trust Contribution	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000
Pay-As-You-Go Contributions	10,719,095	9,663,890	11,229,934	12,700,092	12,570,679	13,430,657
Net Investment Income (Loss)	(51,969,841)	35,999,320	32,732,090	39,251,295	(11,840,345)	25,392,250
Benefit Payments	(10,719,095)	(9,663,890)	(11,229,934)	(12,700,092)	(12,570,679)	(13,430,657)
Administrative Expense	(44,904)	(41,639)	(41,295)	(53,880)	(42,200)	(36,900)
Net Change in Fiduciary Net Position	(47,014,745)	40,957,681	37,690,795	44,197,415	(6,882,545)	30,355,350
Net Position Restricted for OPEB						
Beginning of Year	311,163,146	270,205,465	232,514,670	188,317,255	195,199,800	164,844,450
End of Year	\$ 264,148,401	\$ 311,163,146	\$ 270,205,465	\$ 232,514,670	\$ 188,317,255	\$ 195,199,800
District's Net OPEB Liability	\$ 88,280,223	\$ 26,483,523	\$ 47,912,495	\$ 72,208,136	\$ 133,185,649	\$ 113,547,457
Plan Fiduciary Net Position as a Percentage of the Total OPEB Liability	74.95%	92.16%	84.94%	76.30%	58.57%	63.22%
Covered Payroll	\$ 189,209,374	\$ 180,199,404	\$ 191,261,828	\$ 182,154,122	\$ 192,661,666	\$ 184,807,353
District's Net OPEB Liability as a Percentage of Covered Payroll	46.66%	14.70%	25.05%	39.64%	69.13%	61.44%

NOTES TO SCHEDULE:

Discount Rate - The Single Discount Rate used to calculate the District's Net OPEB Liability has been 6.50% since implementation of GASB 75.

This schedule will show information for ten years as the additional years' information becomes available.

**Metropolitan Water Reclamation District Retiree Health Care Trust
A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago**

REQUIRED SUPPLEMENTARY INFORMATION

SCHEDULE OF DISTRICT CONTRIBUTIONS AND RELATED NOTES

Last Ten Fiscal Years

	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Actuarial Determined Contribution	\$ 9,824,938	\$ 6,298,571	\$ 8,640,607	\$ 9,585,874	\$ 11,506,823	\$ 11,506,823	\$ 12,471,893	\$ 12,471,893	\$ 13,211,937	\$ 13,211,937
Contributions in Relation to the Actuarial Determined Contributions*	15,719,095	14,663,890	16,229,934	17,700,092	17,570,679	18,430,657	19,916,860	18,316,713	33,716,523	33,834,831
Contribution Deficiency (Excess)	\$ (5,894,157)	\$ (8,365,319)	\$ (7,589,327)	\$ (8,114,218)	\$ (6,063,856)	\$ (6,923,834)	\$ (7,444,967)	\$ (5,844,820)	\$ (20,504,586)	\$ (20,622,894)
Covered Payroll	\$ 189,209,374	\$ 180,199,404	\$ 191,261,828	\$ 182,154,122	\$ 192,661,666	\$ 184,807,353	\$ 183,120,020	\$ 176,756,776	\$ 169,909,275	\$ 164,005,092
Contributions as a Percentage of Covered Payroll	8.31%	8.14%	8.49%	9.72%	9.12%	9.97%	10.88%	10.36%	19.84%	20.63%

*Includes pay-as-you-go benefit amounts plus an additional cash contribution to the Trust

NOTES TO SCHEDULE:

Valuation date: Actuarial determined contribution rates shown above are calculated as of December 31 for the fiscal year in which contributions are reported.

Methods and assumptions used to determine contribution rates:

Actuarial cost method	Entry Age Normal
Amortization method	Level Percentage of Payroll
Amortization period	30 Years
Asset valuation method	Fair Value
Discount Rate	6.5%
Inflation Rate	2.5%
Health Care Cost Trend Rate	Initial rate of 7.5% for fiscal year 2022, grading down to the ultimate trend rate of 4.0% in fiscal year 2075
Annual Payroll Growth Rate	3.0%
Disability	None assumed
Age of Spouse [^]	Male spouses are assumed to be 3 years older than female spouses. [^] as defined in the Plan
Coverage at	80% of future eligible service retirees are assumed to elect coverage at retirement. 76% of active employees are assumed to have single plus spouse coverage at retirement.
Dependent children	No children are assumed to be covered at retirement.
Medicare eligibility	100% of members are assumed to enroll in Medicare if eligible and hired on or after April 1, 1986. 93% of members are assumed to enroll in Medicare if eligible and hired prior to April 1, 1986.

**Metropolitan Water Reclamation District Retiree Health Care Trust
A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago**

REQUIRED SUPPLEMENTARY INFORMATION

**SCHEDULE OF INVESTMENT RETURNS
Last Six Fiscal Years**

	<u>2022</u>	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Covered Payroll	<u>\$ 189,209,374</u>	<u>\$ 180,199,404</u>	<u>\$ 191,261,828</u>	<u>\$ 182,154,122</u>	<u>\$ 192,661,666</u>	<u>\$ 184,807,353</u>
Annual Money-Weighted Rate of Return, Net of Investment Expense	<u>-16.43%</u>	<u>13.12%</u>	<u>13.79%</u>	<u>20.38%</u>	<u>-5.91%</u>	<u>15.06%</u>

The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts invested, while the time-weighted rate of return presented elsewhere tracks overall performance of the Trust without adjusting for changes in amounts invested.

This schedule will show information for ten years as the additional years' information becomes available.

SUPPLEMENTARY INFORMATION

**Metropolitan Water Reclamation District Retiree Health Care Trust
A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago**

SUPPLEMENTARY INFORMATION

SUMMARY SCHEDULE OF ADMINISTRATIVE EXPENSES

	Year Ended December 31, 2022	Year Ended December 31, 2021
Professional Services - Audit Fees	\$ 34,860	\$ 33,100
Fiduciary Insurance	10,044	8,539
Total Administrative Expenses	<u>\$ 44,904</u>	<u>\$ 41,639</u>

SUMMARY SCHEDULE OF INVESTMENT FEES

	Year Ended December 31, 2022	Year Ended December 31, 2021
Investment Consulting Fees	<u>\$ 59,333</u>	<u>\$ 55,000</u>

INVESTMENT SECTION

**Metropolitan Water Reclamation District Retiree Health Care Trust
A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago**

INVESTMENT SECTION

INVESTMENT CONSULTANT REPORT



180 North LaSalle Street, Suite 3500
Chicago, IL 60601

February 24, 2023

To the Members of the Board of Commissioners of the
Metropolitan Water Reclamation District of Greater Chicago
Trustee and Fiduciary for the MWRD Retiree Health Care Trust
100 East Erie Street
Chicago, IL 60611-2829

Marquette Associates (“Marquette”) is the independent investment consultant for the Metropolitan Water Reclamation District Retiree Health Care Trust (“Trust”). Marquette is responsible for the implementation of the Trust’s allocation, trustee education, the recommendation and monitoring of investment managers as well as investment performance analysis. Marquette calculates and reports performance returns using a time-weighted rate of return methodology.

Investment Policy

The Trust’s investment policy was initially adopted on November 19, 2009 and most recently revised on November 15, 2018 to allow for new asset allocation targets structured to provide competitive performance while minimizing the potential for losses. The policy allows for a range of exposures to four aggregated asset classes as follows:

Asset Class	Benchmark Fund Asset Mix		
	Minimum	Normal	Maximum
Domestic Equities	40%	45%	50%
International Equities	15%	20%	25%
Fixed Income Securities (Bonds)	30%	35%	40%
Cash/Cash Equivalents (Money Market)	0%	<1%	100%

Metropolitan Water Reclamation District Retiree Health Care Trust
A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago

INVESTMENT SECTION

Investment Portfolio Activities

Investments are made in accordance with the guidelines stated within the Trust's investment policy. In 2022, \$5.0 million was contributed to the Trust along with interest, dividends and capital depreciation of \$51.9 million generated by the underlying funds. Total District contributions to the Trust have aggregated to \$152.4 million as of year-end 2022. Trust holdings in investments at year-end 2022 were valued at \$264.0 million. Investments of the Trust are stated at fair value at the last reported sales price on the last business day for the fiscal year of the Trust.

The assumed actuarial rate of return for the Trust is 6.5%. In 2022, the Trust returned -16.5% net of fees. Over the same period, the policy index returned -15.6%. At the end of 2022, the Trust's Policy index was comprised of approximate weightings in the following indices: Bloomberg Barclays U.S. Aggregate Index (35%), MSCI ACWI Global Min Vol (5%), Russell 3000 Index (45%), and MSCI EAFE Index (15%).

Decades-high inflation levels were persistent in 2022, peaking in June, accelerating to 9.1% year-over-year. After originally labeling inflation as a "transitory" phenomenon, the Fed was forced to double-back and retract its sentiment by raising rates aggressively. Russia's invasion of Ukraine and subsequent sanctions from the West added to inflationary pressures and macro uncertainties, with a more direct impact on Non-U.S. markets. Russia's hostile actions led to volatility in the energy sector and a scramble for Europe to conserve and store energy for the winter. Recession concerns increased in 2022 as 2Q GDP marked the second quarter of negative GDP growth in the U.S. Layoffs in the technology and housing sectors caught the headlines but the labor market remained resilient, with job growth above the historical average and low unemployment rate.

The Trust ended 2022 with a 34.2% allocation to fixed income; net of fees, the fixed income composite returned -14.6% versus the benchmark (Bloomberg Barclays U.S. Aggregate Index) which returned -13.0% during the year. 2022 marked the worst year in the history of the U.S. Aggregate Index and the first time the index had back-to-back years of negative returns.

Many U.S. equity indices began 2022 with their biggest quarterly decline in two years, as inflation and the prospect of increasingly restrictive monetary policy hit growth-oriented stocks. The second quarter saw domestic equities post their worst first half in over 50 years. Declines were felt across the market spectrum and continued through the end of the third quarter. Despite the decline that steadily continued throughout the year, all major domestic equity indices were able to post gains in the fourth quarter.

The OPEB Plan ended the year with a 43.4% allocation to U.S equities; net of fees, the U.S equities composite returned -20.2% versus the benchmark (Russell 3000 Index) which returned -19.2%.

**Metropolitan Water Reclamation District Retiree Health Care Trust
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INVESTMENT SECTION

Similar to domestic equities, Global equities ended a tough year with a strong fourth quarter. Emerging markets concluded the year with a return of -20.1%, while their developed markets' counterparts, as measured by the MSCI EAFE Index returned -14.5%. MSCI EAFE in Local Currency terms returned -7.0%, highlighting how a strong U.S. dollar was a headwind for Non-U.S. equities.

The Trust ended 2022 with a 20.2% allocation to Non-U.S. equities; net of fees, the Non-U.S. equity composite had a -11.8% return versus the benchmark (MSCI EAFE Index) which returned -14.5%.

This January, we saw 2023 commence on a positive note, with both fixed income and equity markets posting strong performance for the month. With that being said, uncertainty fueled by Fed action, inflation, continued strength in labor market (amidst the Fed's hawkish approach to inflation), and repercussions from Russia's war with Ukraine highlight some of the headwinds facing the market in the new year.

Sincerely,



Kweku Obed, CFA, CAIA
Managing Director

**Metropolitan Water Reclamation District Retiree Health Care Trust
A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago**

INVESTMENT SECTION

**TABLE 1
INVESTMENT PORTFOLIO ACTIVITY**

Beginning Balance January 1, 2022	\$311.2 million
Contributions	\$5.0 million
Interest & Dividends	\$5.8 million
Net Capital Depreciation	<u>-\$57.9 million</u>
Ending Balance December 31, 2022	<u><u>\$264.1 million</u></u>
Time-Weighted Investment Rate of Return	<u><u>-16.46%</u></u>

Metropolitan Water Reclamation District Retiree Health Care Trust
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INVESTMENT SECTION

TABLE 2
TIME WEIGHTED RETURNS OF INVESTMENTS
Annualized Performance (Net of Fees as of December 31, 2022)

	Asset Class	Ticker	1 Year	3 Years	5 Years	Inception Return	Since
Total Fund Composite			-16.46%	2.45%	4.05%	6.63%	2010-April
Policy Index			-15.60%	1.14%	3.32%	6.20%	2010-April
Total Fixed Income Composite			-14.58%	-2.78%	0.10%	2.59%	2010-April
BBgBarc US Aggregate TR			-13.01%	-2.71%	0.02%	2.12%	2010-April
Payden Core Bond Fund	Broad Fixed Income	PYCBX	-13.53%	-2.90%	-0.25%	2.41%	2010-April
BBgBarc US Int TR			-9.51%	-1.93%	0.31%	1.85%	2010-April
Dodge & Cox Income Fund	Broad Fixed Income	DODIX	-10.87%	-1.13%	1.12%	3.00%	2010-April
BBgBarc US Int TR			-9.51%	-1.93%	0.31%	1.85%	2010-April
Western Asset Core Plus Institutional	Core Plus Fixed Income	WACPX	-18.78%	-4.48%	-0.74%	1.16%	2015-July
BBgBarc US Aggregate TR			-13.01%	-2.71%	0.02%	0.92%	2015-July
Total Equity Composite			-17.69%	4.05%	5.45%	8.88%	2010-April
Total Equity Benchmark			-17.57%	5.07%	6.43%	9.30%	2010-April
U.S. Equity Composite			-20.20%	5.31%	6.78%	10.60%	2010-April
Russell 3000			-19.21%	7.07%	8.79%	11.66%	2010-April
Ariel Fund Class I	Smid-Cap Value	ARAIX	12.30%	N/A	N/A	N/A	2022-Feb
Russell 2500 Value			9.20%	N/A	N/A	N/A	2022-Feb
Fidelity 500 Index Institutional Class	Large Cap Core	FXAIX	-18.13%	7.65%	9.48%	10.63%	2014-Aug
S&P 500			-18.11%	7.66%	9.42%	10.60%	2014-Aug
Fidelity Contrafund	Large Cap Growth	FCNTX	-28.26%	5.76%	8.51%	11.95%	2010-April
Russell 1000 Growth			-29.14%	7.79%	10.96%	13.34%	2010-April
Fidelity Mid Cap Index Institutional	Mid Cap Core	FSMDX	-17.28%	5.89%	7.10%	8.24%	2015-July
Russell MidCap			-17.32%	5.88%	7.10%	8.24%	2015-July
Vanguard Small Cap Index Institutional	Small Cap Core	VSCIX	-17.60%	4.94%	5.95%	10.38%	2010-April
CRSP US Small Cap TR USD			-17.64%	4.90%	5.92%	10.52%	2010-April
Non-U.S. Equity Composite			-11.75%	1.18%	1.96%	4.69%	2010-April
MSCI EAFE			-14.45%	0.87%	1.54%	4.43%	2010-April
Fidelity International Index Institutional	Non-U.S. Large Cap Core	FSPSX	-14.24%	1.12	1.75	2.54%	2017-Sept
MSCI ACWI ex USA			-16.00%	0.07%	0.88%	2.11%	2017-Sept
Vanguard Global Min Volatility Admr	Global Tactical Balanced	VMNVX	-4.45%	0.92	N/A	4.88%	2018-Nov
FTSE Global All Cap			-10.31%	1.62%	4.57%	5.39%	2018-Nov
Cash Composite			1.28%	0.54%	1.04%	0.68%	2014-May
91 Day T-Bills			1.46%	0.64%	1.19%	0.83%	2014-May
FIMM Government Class I	Cash & Equivalents	FIGXX	1.47%	0.61	1.23	1.17%	2017-Mar
91 Day T-Bills			1.46%	0.64%	1.19%	1.16%	2017-Mar
Fidelity Government Money Market	Cash & Equivalents	SPAXX	1.28%	0.52%	1.20%	0.76%	2014-May
91 Day T-Bills			1.46%	0.64%	1.19%	0.83%	2014-May

Policy Index: 30.0% Russell 3000, 15.0% MSCI EAFE (Net), 45.0% Barclays US Aggregate, 10.0% MSCI ACWI Global Minimum Volatility Index

Total Equity Benchmark: 67% Russell 3000, 33% MSCI EAFE

Metropolitan Water Reclamation District Retiree Health Care Trust
A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago

INVESTMENT SECTION

TABLE 3
TIME WEIGHTED RETURNS OF COMPOSITES
Annualized Performance (Net of Fees as of December 31, 2022)

	1 Year	3 Years	5 Years	Inception Return	Since
Total Fund Composite	-16.46%	2.45%	4.05%	6.63%	2010-April
<i>Policy Index</i>	-15.60%	1.14%	3.32%	6.20%	2010-April
Total Fixed Income Composite	-14.58%	-2.78%	0.10%	2.59%	2010-April
<i>Barclay's U.S. Aggregate Bond Index</i>	-13.01%	-2.71%	0.02%	2.12%	2010-April
Total Equity Composite	-17.69%	4.05%	5.45%	8.88%	2010-April
<i>Total Equity Benchmark</i>	-17.57%	5.07%	6.43%	9.30%	2010-April
U.S. Equity Composite	-20.20%	5.31%	6.78%	10.60%	2010-April
<i>Russell 3000 Index</i>	-19.21%	7.07%	8.79%	11.66%	2010-April
Non-U.S. Equity Composite	-11.75%	1.18%	1.96%	4.69%	2010-April
<i>MSCI EAFE Index</i>	-14.45%	0.87%	1.54%	4.43%	2010-April
Cash Composite	1.28%	0.54%	1.04%	0.68%	2014-May
<i>91 Day T-Bills</i>	1.46%	0.64%	1.19%	0.83%	2014-May

Policy Index: 30% Russell 3000, 15% MSCI EAFE (Net), 45% Barclays US Aggregate, 10% MSCI ASCII Global Minimum Volatility Index

Total Equity Benchmark: 67% Russell 3000, 33% MSCI EAFE

**Metropolitan Water Reclamation District Retiree Health Care Trust
A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago**

INVESTMENT SECTION

INVESTMENT AUTHORITY AND RESPONSIBILITY

As authorized under State Statute 70 ILCS 2605/9.6d, the Trust's investment function is managed by the District's Treasurer, with the District, acting through its Board of Commissioners, serving as Trustee and Fiduciary for the Trust. Per the Trust agreement, the Trustee has total discretion and authority with regard to the investment of the assets of the Trust to which it holds title. The Trustee is authorized and empowered to delegate to the District Treasurer and other individuals as deemed appropriate, the following powers, rights and duties, each of which shall be subject to the approval of the Trustee:

- (a) To purchase and cause stocks, bonds, exchange-traded funds, mutual funds, or other investments to be registered in its name as Trustee or in the name of a nominee, or to take and keep the same unregistered;
- (b) To employ such agents, advisors and legal counsel as it deems advisable or proper in connection with its duties and to pay such agents, advisors and legal counsel a reasonable fee. The Trustee shall not be liable for the acts of such agents, advisors and legal counsel for the acts done in good faith and in reliance upon the advice of such agents, advisors and legal counsel, provided it has used reasonable care in selecting such agents, advisors and legal counsel;
- (c) To exercise where applicable and appropriate any rights of ownership in any contracts of insurance in which any part of the Trust may be invested and to pay the premiums thereon; and
- (d) To buy, sell, convey or transfer, invest and reinvest any part of each and every kind of investment listed above in Section (a).

OUTLINE OF INVESTMENT POLICIES

In accordance with state Statute 70 ILCS 2605/9.6d, "To the extent participants do not direct the investment of their own account, the assets of the OPEB Trusts shall be managed by the Treasurer of the District in any manner, subject only to the prudent investor standard and any requirements of applicable federal law. The limitations of any other statute affecting the investment of District funds shall not apply to the OPEB Trust. The Trustee shall adopt an investment policy consistent with the standards articulated in Section 2.5 of the Public Funds Investment Act." The Investment Policy for the Trust was initially approved by the District's Board of Commissioners on November 19, 2009 and was most recently revised on November 15, 2018.

Metropolitan Water Reclamation District Retiree Health Care Trust
A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago

INVESTMENT SECTION

INVESTMENT OBJECTIVES

The Trust, based on its overall purpose of supporting the long-term financial ability to fund retiree healthcare expenditures, is structured to provide competitive performance while minimizing the potential for losses. Accordingly, the Trust will have a balanced overall structure in accordance with the Trust’s strategy. The Trust’s investment policy allows for asset allocation targets that are structured to provide competitive performance while minimizing the potential for losses. The asset allocation targets for the Trust are as follows:

Asset Class	Fund Asset Mix		
	Minimum	Normal	Maximum
Domestic Equities	40%	45%	50%
International Equities	15%	20%	25%
Fixed Income Securities (Bonds)	30%	35%	40%
Cash and Money Market Funds	0%	<1%	100%

A blended benchmark has been designated for evaluation of the performance of the Trust’s investment account. Appropriate individual benchmarks are used for evaluation of underlying investments based on their respective investment style categories. The blended benchmark for evaluation of the Trust account’s performance is a mix of the Russell 3000 Index (30.0%), MSCI EAFE Index (15%), Barclay’s U.S. Aggregate Bond Index (45.0%), and MSCI ACWI Global Minimum Volatility Index (10%).

INVESTMENT ALLOCATION

Investment by the Trust is undertaken through investment custodial accounts. Through December 31, 2022, the Trust’s cumulative contributions of \$152.4 million along with accumulated distributions have been invested in accordance with the Trust’s strategy. All investments are in mutual funds and money market funds.

As of December 31, 2022 and 2021, the Trust’s asset allocations at fair value are as follows:

Asset Class	Actual Asset Allocation 2022	Actual Asset Allocation 2021	Target Allocation 2022
Domestic Equity	43%	49%	45%
International Equity	20%	20%	20%
Domestic Fixed Income	34%	28%	35%
Money Market Funds & Cash	3%	3%	<1%
Total	100%	100%	100%

Per the Investment Policy, “The Trust may maintain cash reserves in money market securities. For temporary, defensive purposes, the Trust may invest without limitation in cash

**Metropolitan Water Reclamation District Retiree Health Care Trust
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INVESTMENT SECTION

reserves. A reserve position provides flexibility in meeting redemptions, expenses, and the timing of new investments, and serves as a short-term defense during periods of unusual volatility. In situations where the Trustee determines that the divestiture of an asset class is necessary to protect the valuation, safety, or liquidity of the portfolio, amounts may temporarily exceed the maximum asset mix limit.”

INVESTMENT PERFORMANCE

The Investment Advisor evaluates mutual fund performance and reports to the Executive Committee individual fund performance as well as overall performance. Investment returns are calculated based on a time-weighted rate of return based upon market values and in compliance with industry-accepted reporting standards. Exchange-traded mutual funds report return net of investment fees.

The investment rate of return on invested assets for the year ended December 31, 2022, was -16.46%, compared to the Trust’s Policy Index return of -15.60%.

The investment rate of return on invested assets for the year ended December 31, 2021, was 13.09%, compared to the Trust’s Policy Index return of 9.69%.

Metropolitan Water Reclamation District Retiree Health Care Trust
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INVESTMENT SECTION

INVESTMENT ASSETS

	December 31, 2022		December 31, 2021	
	Fair Value	Percent	Fair Value	Percent
Domestic Equity Funds				
Ariel Fund Class I	\$ 12,252,718	4.6%	\$ —	—%
Fidelity 500 Index Fund	44,471,039	16.9%	59,730,797	19.2%
Fidelity Contrafund	16,367,263	6.2%	23,978,485	7.7%
Fidelity Mid Cap Index Fund	19,162,952	7.3%	35,339,008	11.4%
Vanguard Small Cap Index Institutional	19,604,404	7.4%	34,897,034	11.2%
Total Domestic Equity Funds	111,858,376	42.4%	153,945,324	49.5%
International Equity Funds				
Fidelity International Index Fund	38,997,936	14.8%	45,583,570	14.7%
Vanguard Global Minimum Volatility	14,295,017	5.4%	15,702,739	5.0%
Total International Equity Funds	53,292,953	20.2%	61,286,309	19.7%
Domestic Fixed Income Funds				
Dodge & Cox Income Fund	40,248,714	15.2%	39,757,563	12.8%
Payden Core Bond Fund	12,910,923	4.9%	13,832,161	4.4%
Western Asset Core Plus Bond Fund	37,050,465	14.0%	32,765,712	10.5%
Total Domestic Fixed Income Funds	90,210,102	34.1%	86,355,436	27.7%
Money Market Funds	8,677,073	3.3%	9,516,075	3.1%
Total Investments at Fair Value	\$ 264,038,504	100.0%	\$ 311,103,144	100.0%

Metropolitan Water Reclamation District Retiree Health Care Trust
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INVESTMENT SECTION

INVESTMENT ANALYTICS

Schedule of Investment Returns

	Year Ended 12/31/2022 (1)	Year Ended 12/31/2021 (2)	Three Years Ended 12/31/2022	Five Years Ended 12/31/2022
Trust's Total Portfolio	-16.46%	13.09%	2.45%	4.05%
<i>Trust's Policy Index</i> <i>(30% Russell 3000 Index; 15% MSCI EAFE Index; 45% Barclays U.S. Aggregate Bond Index; 10% MSCI ACWI Global Minimum Volatility Index)</i>	-15.60%	9.69%	1.14%	3.32%
Trust's Equity Composite	-17.69%	20.24%	4.05%	5.45%
<i>67% Russell 3000; 33% MSCI EAFE</i>	-17.57%	20.79%	5.07%	6.43%
<i>Domestic Equity Composite</i>	-20.20%	24.05%	5.31%	6.78%
<i>Russell 3000 Index</i>	-19.21%	25.66%	7.07%	8.79%
<i>International Equity Composite</i>	-11.75%	11.62%	1.18%	1.96%
<i>MSCI EAFE Index</i>	-14.45%	11.26%	0.87%	1.54%
Trust's Fixed Income Composite	-14.58%	-1.37%	-2.78%	0.10%
<i>Barclay's U.S. Aggregate Bond Index</i>	-13.01%	-1.54%	-2.71%	0.02%

(1) The decrease in value of invested assets was -15.13% for the year ended December 31, 2022. The return on invested assets using the Modified Dietz approach was -16.46%. The disparity between the percentage return on investments and the decrease in asset value reflects the impact and timing of the \$5,000,000 advance funding contribution made during the year.

(2) The increase in value of invested assets was 15.16% for the year ended December 31, 2021. The return on invested assets using the Modified Dietz approach was 13.09%. The disparity between the percentage return on investments and the increase in asset value reflects the impact and timing of the \$5,000,000 advance funding contribution made during the year.

**Metropolitan Water Reclamation District Retiree Health Care Trust
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INVESTMENT SECTION

**History of Investment Yields at Fair Value
Years Ending December 31**

Year	Invested Assets	Yield at Market	Trust's Policy Index
2022	\$ 264,038,504	-16.46%	-15.60%
2021	311,103,144	13.09%	9.69%
2020	270,139,190	13.81%	11.76%
2019	232,445,765	20.48%	18.55%
2018	188,236,277	-5.87%	-4.02%
2017	195,140,843	15.06%	11.53%
2016	164,772,053	6.90%	5.69%
2015	149,237,550	-1.39%	0.47%
2014	146,317,546	4.87%	6.34%
2013	120,681,050	16.29%	16.47%

**Summary Schedule of Investment Fees
Years Ending December 31**

	2022	2021
Investment Consulting Fees	<u>\$ 59,333</u>	<u>\$ 55,000</u>

Note: The Fund did not incur any investment trade fees in 2022 and 2021

ACTUARIAL SECTION

**Metropolitan Water Reclamation District Retiree Health Care Trust
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ACTUARIAL SECTION

ACTUARIAL CERTIFICATION LETTER



April 21, 2023

To the Members of the Board of Commissioners of the
Metropolitan Water Reclamation District of Greater Chicago
Trustee and Fiduciary for the MWRD Retiree Health Care Trust
100 East Erie Street
Chicago, IL 60611-2829

The Metropolitan Water Reclamation District of Greater Chicago ("MWRD") retained Foster & Foster Consulting Actuaries Inc. to provide all necessary schedules required to comply with the Governmental Accounting Standards Board No. 74 ("GASB 74") and No. 75 ("GASB 75") for the Retiree Health Care Benefit Plan ("the Plan"). The GASB 74 and 75 results are applicable for MWRD's fiscal years ending December 31, 2022 and December 31, 2023, respectively. The schedules related to GASB 74 can be found in the Notes to the Basic Financial Statements and Required Supplementary Information.

Actuarial calculations under GASB 74 and 75 are for purposes of fulfilling MWRD's financial accounting requirements. The calculations contained herein have been made on a basis consistent with our understanding of GASB 74 and 75.

The valuation has been conducted in accordance with all applicable federal laws and regulations, as well as generally accepted actuarial principles and practices, including the applicable Actuarial Standards of Practice as issued by the Actuarial Standards Board; specifically No. 6 for Measuring Retiree Group Benefit Obligations, No. 23 for Data Quality, No. 27 for Selection of Economic Assumptions for Measuring Pension Obligations, and No. 35 for Selection of Demographic and Other Noneconomic Assumptions for Measuring Pension Obligations. GASB 74 and 75 requires that each significant assumption reflect the client's best estimate of the Plan's future experience solely with respect to that assumption. In our opinion, the assumptions and methods used in this valuation, as adopted by the District, represent reasonable expectations of anticipated plan experience under GASB 74 and 75.

In performing the analysis, we used third-party software to model (calculate) the underlying liabilities and costs. These results are reviewed in the aggregate and for individual sample lives. The output from the software is either used directly or input into internally developed models to generate the costs. All internally developed models are reviewed as part of the process. As a result of this review, we believe that the models have produced reasonable results. We do not believe there are any material inconsistencies among assumptions or unreasonable output produced due to the aggregation of assumptions.

Metropolitan Water Reclamation District Retiree Health Care Trust
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ACTUARIAL SECTION

In conducting the valuation, we have relied on personnel and plan design information supplied by the District personnel, and the actuarial assumptions and methods described in the Actuarial Assumptions section of this report. While we cannot verify the accuracy of all this information, the supplied information was reviewed for consistency and reasonableness. Because of this review, we have no reason to doubt the substantial accuracy of the information and believe that it has produced appropriate results. This information, along with any adjustments or modifications, is summarized in various sections of this report.

The total OPEB liability is determined by an actuarial valuation of benefits every two years. In interim years, disclosures may be developed based on results of the most recent actuarial valuation. The total OPEB liability and certain sensitivity information shown in this report are based on the most recent actuarial valuation performed as of December 31, 2021, and certain results were projected to the measurement date using generally accepted actuarial methods. The next actuarial valuation will be conducted as of December 31, 2023. It is our opinion that the assumptions used for this purpose are internally consistent, reasonable, and comply with the requirements under GASB 74 and 75, as well as the guidance set by Actuarial Standards of Practice as issued by the Actuarial Standards Board.

This report shows detailed summaries of the financial results of the valuation and membership data used in preparing this valuation. The actuaries prepared supporting schedules that are to be included in the Actuarial and Statistical Sections of the MWRD Annual Comprehensive Financial Report. The actuary prepared the trend data schedules to be included in the Financial Sections of the MWRD Retiree Health Care Trust Annual Comprehensive Financial Report. The schedules include:

- OPEB Expense and Net OPEB Liability
- Supplements to Notes to the Financial Statements:
 - Schedule of Changes in the Net OPEB Liability
 - Schedule of Net OPEB Liability Sensitivities
- Schedule of Deferred Inflows of Resources and Deferred Outflows of Resources Related to OPEB
- Schedule of Changes in the Total OPEB Liability and Related Ratios
- Schedule of Contributions
- Schedule of Components of OPEB Expense and Related Amortization Schedules
- Reconciliation of Changes in Unfunded Liability
- Summary of Membership Data
- Schedule of Active Member Valuation Data

The measurements shown in this actuarial valuation may not be applicable for other purposes. Future actuarial measurements may differ significantly from the current measurements presented in this report due to factors such as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period); and changes in plan provisions or applicable law. Retiree group benefits models necessarily rely on the use of approximations and estimates and are sensitive to changes in these approximations and estimates. Small variations in these approximations and estimates may

**Metropolitan Water Reclamation District Retiree Health Care Trust
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ACTUARIAL SECTION

lead to significant changes in actuarial measurements. Due to the limited scope of this report an analysis of the potential range of such future measurements has not been performed.

This report was prepared for the internal use of Metropolitan Water Reclamation District in connection with our actuarial valuation of the Plan for the purpose noted above and not for reliance by any other person. Foster & Foster Consulting Actuaries, Inc. disclaims any contractual or other responsibility or duty of care to others based upon the services or deliverables provided in connection with this report.

This report does not purport to comply with any other purposes not stated herein. Significantly different results from what is presented in this report may be needed for other purposes.

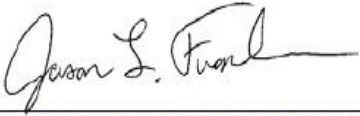
This document was not intended or written to be used, and it cannot be used, for the purpose of avoiding U.S. federal, state, or local tax penalties. This includes penalties that may apply if the transaction that is the subject of this document is found to lack economic substance or fails to satisfy any other similar rule of law.


Foster & Foster does not provide legal, investment or accounting advice. Thus, the information in this report is not intended to supersede or supplant the advice or the interpretations of the District or its affiliated legal, investing or accounting partners.

The undersigned actuaries are familiar with the immediate and long-term aspects of OPEB valuations, are members of the Society of Actuaries and the American Academy of Actuaries and meet the "Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States" related to postretirement medical and life insurance plans. All the sections of this report are considered an integral part of the actuarial opinions.

To our knowledge, the individuals involved in this engagement have no relationship that may impair, or appear to impair, the objectivity of our work.

Respectfully submitted,
Foster & Foster, Inc

By: 
Jason L. Franken, FSA, EA, MAAA

By: 
Colleen M. Atchison, FSA, MAAA

**Metropolitan Water Reclamation District Retiree Health Care Trust
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ACTUARIAL SECTION

INTRODUCTION

Biennially, the Trust's actuary will prepare a valuation of the liabilities and reserves of the Trust in order to make a determination of the amount of contributions required from the District. These results are then communicated to the District's Board of Commissioners (BOC). The District, acting through its BOC, has the duty of determining the employer contribution amount it intends to pay to the Trust the following fiscal year.

The information included in this report is mainly based on the actuarial valuation performed as of December 31, 2021. An actuarial valuation is required to be performed biennially for the Trust. For the years in which a valuation is not performed, the total OPEB liability is required to be based on updated calculation procedures to roll-forward amounts from the most recent actuarial valuation for fiscal year-ends when an actuarial valuation is not performed. The next actuarial valuation date is December 31, 2023.

The BOC has discretionary authority to determine contribution amounts to be paid into the OPEB Trust Fund. In 2007 the District adopted an initial OPEB advance funding policy meant to (i) improve the District's financial position by reducing the amount of future employer contributions and (ii) serve to establish a reserve to help ensure the financial ability to provide healthcare coverage for District retirees and annuitants in the future. The funding policy was amended on October 2, 2014 to change the target funding level from 50% to 100%; remaining advance funding period from 50 years to 12 years; and, advance funding amount of \$5 million to be contributed in each of the twelve years 2015 through 2026. No further advance funding contributions are expected after 2026. Beginning in 2027, cash is expected to be withdrawn from the Trust to fund claims and insurance premiums will be actuarially determined with a target funding level to be maintained at 100 percent for all future years. Through December 31, 2022, \$152.4 million has been contributed by the District to the OPEB Trust Fund. There is currently no legal requirement for the District to partially or fully fund the Trust and any funding is on a voluntary basis.

Although voluntary in nature, the District intends to accumulate resources sufficient to ease the burden of administering the District's postemployment health care plan. For fiscal year 2022 the District funded an excess of \$5,894,157 of the Trust's Actuarial Determined Contribution amount of \$9,824,938.

SUMMARY OF ACTUARIAL ASSUMPTIONS, METHODS, AND DATA

The Trust was established in 2007 and the first actuarial valuation was performed as of January 1, 2007. The actuarial assumptions were recommended by the actuary and have been adopted by the Executive Committee of the OPEB Trust.

Metropolitan Water Reclamation District Retiree Health Care Trust
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It is the actuary's opinion that the District's funding policy is sufficient to ensure funds for all future benefit obligations, given the following:

- The realization of future actuarial assumptions on which projections are based; and
- The District continues to make timely contributions to the Trust as described under the funding policy.

The actuarial cost method used for this valuation and for funding purposes is the Entry Age Normal (Level Percent of Pay) method. This is the same method used for financial reporting purposes (mandated under GASB 74/75). This method was selected for funding purposes to align with the method used for accounting purposes. Given that the the District is under no obligation to fund the Trust, consistency between funding and accounting allows for clear and concise communication of results. Assumptions used for funding purposes are the same as those used for financial reporting purposes.

Under the Entry Age Normal cost method, the actuarial present value of the projected benefits of each member included in the valuation is assumed to be funded by annual installments, equal to a level percent of the member's earnings for each year between entry age and assumed exit age. The normal cost for the member for the current year is equal to the portion of the value so determined, assigned to this year. The normal cost for the Plan for the year is the sum of the normal costs of all active members.

Each year the unfunded actuarial accrued liability is expected to be equal to the sum of the unfunded actuarial accrued liability and normal cost from the prior year, plus interest, less the accumulated value of employer contributions made. The extent to which this expected value differs from the actual value of the unfunded actuarial accrued liability reflects the actuarial experience for the plan year. If the expected value exceeds the actual value, an actuarial gain has occurred. Conversely, if the actual value exceeds the expected value then an actuarial loss has occurred. The unfunded actuarial accrued liability is further modified only for changes in plan provisions, actuarial assumptions or methods. Actuarial gains or losses or changes in the unfunded actuarial liability due to changes in plan provisions, actuarial assumptions or methods are amortized over time. Actuarial gains (losses) will decrease (increase) future costs.

Dates of adoption: The initial cost method and all other actuarial assumptions were adopted January 1, 2007. The current Mortality Rate is determined using the "RP-2000 Combined Healthy Mortality Table with Generational Mortality Improvements (Scale AA)", with female rates adjusted by a factor of 1.04. Effective December 31, 2015, the actuarial cost method was changed from the Projected Unit Credit method to the Entry Age Normal method to better reflect anticipated experience.

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The following outlines the changes since the prior valuation:

- The census data reflects changes in status in status for the twenty-four-month period since December 31, 2019.
- The annual per capita claims costs have been updated. The premium rates have also been updated to use the rates effective for fiscal year 2022.
- Aging factors applied to health care costs have been updated to age and gender based factors developed in a study performed by Dale Yamamoto for the Society of Actuaries. Previously, claims costs were aged at a flat 4% before the age of 65, 3% from ages 65 to 75, 2% from ages to 75 to 85, and 0% thereafter.
- Trend rates have been reset to use an initial rate of 7.5% in fiscal year 2022, grading down to 4.0% in fiscal year 2075, in accordance with the Getzen model developed based on recent health care costs studies. Medicare Advantage (MAPD) costs are expected to increase at 3.5% per year.
- The percent of the population assumed to elect PPO coverage (as opposed to HMO coverage) in retirement was lowered from 78% to 76% based on the actual retiree enrollment as of the valuation date.
- The participation rate was lowered from 90% to 80% based on experience of the Plan over the last five years.

**Metropolitan Water Reclamation District Retiree Health Care Trust
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ACTUARIAL SECTION

Below are the most significant actuarial assumptions:

Valuation date	December 31, 2021
Actuarial cost method	Entry Age Normal
Amortization method	Level Percentage of Payroll
Amortization period	30 Years
Asset valuation method	Fair Value
Discount Rate	6.5%
Inflation Rate	2.5%
Health Care Cost Trend Rate	Initial rate of 7.5% for fiscal year 2022, grading down to the ultimate trend rate of 4.0% in fiscal year 2075
Annual Payroll Growth Rate	3.0%
Disability	None assumed
Age of Spouse [^]	Males spouses assumed to be 3 years older than female spouses. [^] as defined in the Plan
Coverage at	80% of future eligible service retirees are assumed to elect coverage at retirement. 76% of active employees are assumed to have single plus spouse coverage at retirement.
Dependent children	No children are assumed to be covered at retirement.
Medicare eligibility	100% of members are assumed to enroll in Medicare if eligible and hired on or after April 1, 1986. 93% of members are assumed to enroll in Medicare if eligible and hired prior to April 1, 1986.

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Summary of Participant Information

All employees of the District, with at least 10 years of service, are eligible to receive post-retirement medical benefits. The participant data detailed in the following table and used in the actuarial valuations includes all employees that are eligible or may become eligible to receive post-retirement benefits and currently elect medical coverage.

The following table is based on eligibility for post-retirement medical benefits:

	<u>Total*</u>
Active participants	
Eligible for post-retirement benefits	458
Not yet eligible for post-retirement benefits	1,269
Total	<u>1,727</u>
Retirees, Survivors, and Dependents	
Retirees and Survivors [^]	1,959
Dependent Spouses [^]	924
Total	<u>2,883</u>
Total participants	<u><u>4,610</u></u>
Active participant characteristics	
Average age of actives	49.7
Average age at employment	37.0
Average past service	12.7
Average age of inactive participants	72.8

*participant data determined as of December 31, 2021

[^]as defined in the Plan

Retirees who meet the age and service requirements are eligible for medical and prescription drug benefits in accordance with the Plan. Employees must have at least ten years of actual service with the District, and coverage does not commence until the member begins receiving payments from the District's Retirement Fund. District Commissioners must have at least six years of service as a Commissioner of the District. Eligibility age is based on the employee's hire date as follows: age 80 for those hired before June 13, 1997, and age 55 for those hired between June 13, 1997 and January 1, 2011, and age 63 for those hired after January 1, 2011.

**Metropolitan Water Reclamation District Retiree Health Care Trust
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ACTUARIAL SECTION

Retiree Annual Contributions

The following annual retiree contribution rates are effective July 1, 2021 through June 30, 2022:

	HMO Plans		PPO Plans	
	Without Medicare	With Medicare	Without Medicare	With Medicare
All Retirees				
Benefit Recipient:				
Pre-65	\$ 5,009	\$ 5,009	\$ 7,363	\$ 7,363
Post-65	5,009	1,260	7,363	1,260
Dependent Spouses^:				
Pre-65	4,368	4,368	7,363	7,363
Post-65	4,368	1,260	7,363	1,260

^as defined in the Plan

Withdrawal Rates

Employees are assumed to terminate based on age, entry age, and gender. The following tables summarize these rates:

Service	Male Rate	Female Rate
0	5.00%	7.75%
1	3.50%	6.75%
2	3.50%	5.75%
3	2.60%	4.75%
4	2.24%	4.52%
5	2.15%	4.49%
6	1.75%	4.19%
7	1.70%	3.94%
8	1.65%	3.74%
9	1.55%	3.54%
10	1.55%	3.34%
11	1.55%	3.14%
12	1.45%	2.94%
13	1.40%	2.85%
14	1.35%	2.52%
15	1.20%	2.52%
16+	1.00%	2.52%

**Metropolitan Water Reclamation District Retiree Health Care Trust
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ACTUARIAL SECTION

Retirement Rates

Employees are assumed to retire according to the following illustrative schedule:

<u>Age</u>	<u>Retirement Rate</u>
50-59	7%
60	20%
61-64	10%
65	15%
66	18%
67	25%
68	15%
69	30%
70	35%
71-74	20%
75	100%

Annual Per Capita Claims

The claims tables for the 2021 valuation have been developed by calculating the weighted average of the 2021 premium rates based on the current enrollment data. These weighed average rates are subsequently expanded to an age-based table using the actuary's proprietary cost curve. The following table summarizes the assumed per capita claims (medical and prescription drugs) at illustrative ages.

<u>Age</u>	<u>HMO Plans</u>				<u>PPO Plans</u>			
	<u>With Medicare</u>		<u>Without Medicare</u>		<u>With Medicare</u>		<u>Without Medicare</u>	
	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
40-44	\$ 5,055	\$ 7,864	\$ 5,055	\$ 7,864	\$ 7,315	\$ 11,020	\$ 7,315	\$ 11,020
45-49	6,421	8,637	6,421	8,637	9,236	12,137	9,236	12,137
50-54	8,442	10,160	8,442	10,160	12,163	14,230	12,163	14,230
55-59	11,201	11,745	11,201	11,745	15,815	16,472	15,815	16,472
60-64	14,675	13,981	14,675	13,981	20,284	19,523	20,284	19,523
65-69	—	—	18,898	17,277	—	—	25,528	24,106
70-74	—	—	24,146	21,485	—	—	31,220	29,931
75+	—	—	27,710	24,581	—	—	34,826	34,211

**Metropolitan Water Reclamation District Retiree Health Care Trust
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ACTUARIAL SECTION

Annual Medical Trend Assumptions

Trend rates are used to project current medical claim costs into the future. The derived medical trend rates illustrated below reflect recent healthcare trend rate surveys, blended with the long-term rates from the Getzen model published by the Society of Actuaries. It reflects an initial rate of 7.50% in fiscal year 2022, grading down to the ultimate trend rate of 4.00% in fiscal year 2075.

<u>Year</u>	<u>Trend</u>
2022	7.50%
2023	7.25%
2024	7.00%
2025	6.75%
2026	6.50%
2027	6.25%
2028	6.00%
2029	5.75%
2030	5.50%
2031-2052	5.25%
2053-2060	5.00%
2061-2067	4.75%
2068-2071	4.50%
2072-2074	4.25%
2075 and later	4.00%

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ACTUARIAL SECTION

ANALYSIS OF FUNDING AND FINANCIAL EXPERIENCE

Reconciliation of the Change in Unfunded Net OPEB Liability

(in thousands)

Unfunded Net OPEB Liability as of December 31, 2019	<u>\$ 72,208</u>
Expected Unfunded Net OPEB Liability as of December 31, 2021	<u>\$ 41,330</u>
1. Changes in Census Data	(15,707)
2. Claims Costs and Premiums significantly lower than expected	(30,756)
3. Update to Yamamoto Aging	20,051
4. Update to Getzen Trend Rates with 3.5% Trend for Medicare	35,352
5. Updated enrollment assumption to align with actual retiree elections	(153)
6. Updated participation assumption	(5,399)
7. Investment Return greater than expected	(18,234)
Net Decrease in Unfunded Net OPEB Liability	<u>(14,846)</u>
Unfunded Net OPEB Liability as of December 31, 2021	<u>\$ 26,484</u>

1. The census data reflects changes in the census information for the twenty-four (24) month period since December 31, 2019.
2. Medical claims costs and premiums were both lower than expected. The impact of lower costs is magnified, as the liability is the net result of total costs, offset by retiree contributions. Additionally, the explicit subsidy is lower due to lower premiums, further decreasing the liability.
3. Updated Yamamoto Aging factors were implemented to better reflect how medical costs change with age. This assumption change results in an increase in the Total OPEB Liability.
4. The updated trend rate assumption lengthens the number of years between initial and ultimate trend rates to 53 years based on the Getzen model. Costs are initially expected to increase at a rate of 7.5% in fiscal year 2022. The expected increase is lowered each year until an ultimate rate of 4.0% is reached in fiscal year 2075. Medicare premiums are assumed to increase by 3.5%.
5. Based on current enrollment, 76% of retirees are assumed to elect PPO coverage. Previously, 78% were assumed to elect PPO coverage.
6. The participation assumption was lowered from 90% to 80% based on experience over the last five years.

Note: Actuarial valuations are required to be completed every two years. The most recent actuarial valuation was as of December 31, 2021.

Metropolitan Water Reclamation District Retiree Health Care Trust
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ACTUARIAL SECTION

FUNDING PROGRESS - SOLVENCY TEST *(in thousands of dollars)*

Actuarial Valuation Date	Actuarial Accrued Liability				Valuation Assets
	Member Contributions	Terminated, Retirees, and Beneficiaries	Active Members	Total	
12/31/2022	\$ —	\$ 302,525	\$ 49,904	\$ 352,429	\$ 264,148
12/31/2021	—	294,447	43,200	337,647	311,163
12/31/2020	—	250,926	67,192	318,118	270,205
12/31/2019	—	246,494	58,229	304,723	232,515
12/31/2018	—	243,477	78,026	321,503	188,317
12/31/2017	—	240,800	67,947	308,747	195,200
12/31/2015	—	222,647	63,999	286,646	149,329
12/31/2013	—	155,675	104,689	260,364	120,883
12/31/2011	—	242,409	152,267	394,676	54,996

Actuarial Valuation Date	Portion of Accrued Liability Covered by Valuation Assets				
	Member Contributions	Terminated, Retirees, and Beneficiaries	Active Members	Total	Covered Payroll
12/31/2022	100.00%	87.31%	—%	74.95%	\$ 189,209
12/31/2021	100.00%	100.00%	38.69%	92.16%	180,199
12/31/2020	100.00%	100.00%	28.69%	84.94%	191,262
12/31/2019	100.00%	94.33%	—%	76.30%	182,154
12/31/2018	100.00%	77.34%	—%	58.57%	192,662
12/31/2017	100.00%	81.06%	—%	63.22%	184,807
12/31/2015	100.00%	67.07%	—%	52.10%	176,757
12/31/2013	100.00%	77.65%	—%	46.43%	164,005
12/31/2011	100.00%	22.69%	—%	13.93%	162,853

The Actuarial Assumptions were determined as part of the actuarial valuation at December 31, 2021. An actuarial valuation is required to be performed biennially for the Trust. The next valuation date is December 31, 2023. Beginning in 2018, for the years in which an actuarial valuation is not completed, a roll-forward valuation is completed from the latest actuarial valuation to compute the updated Net OPEB liability. The Actuarial Accrued Liabilities as of December 31, 2022, 2020 and 2018 were based on roll-forward valuations.

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ACTUARIAL SECTION

SCHEDULE OF ACTIVE MEMBER VALUATION DATA

Actuarial Valuation Date	12/31/2021	12/31/2019	12/31/2017	12/31/2015	12/31/2013
Members in Service	1,727	1,817	1,835	1,836	1,875
% Change	(4.95)%	(0.98)%	(0.05)%	(2.08)%	(0.95)%
Covered Payroll	\$ 180,199,404	\$ 182,154,122	\$ 184,807,353	\$ 176,756,776	\$ 164,005,092
% Change	(1.07)%	(1.44)%	4.55 %	7.78 %	(0.71)%
Average Salary	\$ 104,342	\$ 100,250	\$ 100,712	\$ 96,273	\$ 87,469
% Change	4.08 %	(0.46)%	4.61 %	10.07 %	1.67 %
Payroll Growth Assumption	3.60 %	3.60 %	3.60 %	3.60 %	3.60 %

SCHEDULE OF RETIREES AND BENEFICIARIES ADDED TO AND REMOVED FROM ROLLS

Actuarial Valuation Date	12/31/2021	12/31/2019	12/31/2017	12/31/2015	12/31/2013
Beginning of Year Balance	2,015	1,984	2,003	1,964	1,977
Number Added to Rolls	180	177	172	217	118
Benefit Cost	\$ 874,080	\$ 1,115,631	\$ 1,164,268	\$ 1,442,616	\$ 831,192
Number Removed from Rolls	205	146	191	178	131
Benefit Cost	\$ 995,480	\$ 920,238	\$ 1,292,879	\$ 1,183,344	\$ 922,764
End of Year Balance	1,990	2,015	1,984	2,003	1,964
Health Care Annual Benefit	\$ 9,663,890	\$ 12,700,092	\$ 13,430,657	\$ 13,316,713	\$ 13,834,831
Average Annual Benefit	\$ 4,856	\$ 6,303	\$ 6,769	\$ 6,648	\$ 7,044
Increase (Decrease) in Average Benefit	(22.96)%	(6.88)%	1.82 %	(5.62)%	(7.29)%

STATISTICAL SECTION

Metropolitan Water Reclamation District Retiree Health Care Trust
A Component Unit of the Metropolitan Water Reclamation District of Greater Chicago

STATISTICAL SECTION

DESCRIPTION OF THE STATISTICAL SCHEDULES

This part of the Trust’s Annual Comprehensive Financial Report presents detailed information as a context for understanding what the information in the financial statements, notes disclosures, and the required supplementary information indicate about the Trust’s overall financial health.

Demographics Information

Schedules contain participant information to assist the readers of the financial statements in understanding the demographics of the Plan participants.

Financial Trends

These schedules contain trend information to assist the readers in understanding how the Trust’s financial position, investment performance, revenues, and expenses have changed over time.

Sources: Unless otherwise noted, the information in these schedules is derived from the Annual Comprehensive Financial Report for the relevant years.

MEMBERSHIP STATISTICS

All employees of the District are eligible to receive post employment health care benefits. The same benefit is available to all participants. The participant data detailed in the following table includes all employees that are eligible or may become eligible to receive benefits and currently elect medical coverage.

Active Members

Actuarial Valuation Date	Eligible	Not Yet Eligible	Retirees and Beneficiaries	Total	% Active to Retirees
12/31/2021	458	1,269	1,959	3,686	88%
12/31/2019	543	1,274	1,978	3,795	92%
12/31/2017	590	1,245	1,943	3,778	94%
12/31/2015	555	1,281	1,962	3,798	94%
12/31/2013	528	1,347	1,964	3,839	95%

Retirees and Beneficiaries

Actuarial Valuation Date	Employee	Surviving Spouse	Child	Total
12/31/2021	1,552	407	0	1,959
12/31/2019	1,544	434	0	1,978
12/31/2017	1,505	438	0	1,943
12/31/2015	1,504	458	0	1,962
12/31/2013	1,480	484	0	1,964

Note: An actuarial valuation is required to be performed biennially for the Trust. The next valuation date is December 31, 2023.

Metropolitan Water Reclamation District Retiree Health Care Trust
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STATISTICAL SECTION

STATEMENTS OF CHANGES IN FIDUCIARY NET POSITION
Last Ten Years

	Year Ended 2022	Year Ended 2021	Year Ended 2020	Year Ended 2019	Year Ended 2018
Additions:					
Contributions by Employer	\$ 15,719,095	\$ 14,663,890	\$ 16,229,934	\$ 17,700,092	\$ 17,570,679
Total Contributions	<u>15,719,095</u>	<u>14,663,890</u>	<u>16,229,934</u>	<u>17,700,092</u>	<u>17,570,679</u>
Net Appreciation (Depreciation) in Fair Value of Investments	(57,718,065)	30,605,436	28,350,751	33,868,070	(16,588,686)
Interest and Dividends	5,807,557	5,448,884	4,436,339	5,438,225	4,803,341
Total Investment Return (Loss)	<u>(51,910,508)</u>	<u>36,054,320</u>	<u>32,787,090</u>	<u>39,306,295</u>	<u>(11,785,345)</u>
Less Investment Expenses	(59,333)	(55,000)	(55,000)	(55,000)	(55,000)
Net Investment Income (Loss)	<u>(51,969,841)</u>	<u>35,999,320</u>	<u>32,732,090</u>	<u>39,251,295</u>	<u>(11,840,345)</u>
Total Additions	<u>(36,250,746)</u>	<u>50,663,210</u>	<u>48,962,024</u>	<u>56,951,387</u>	<u>5,730,334</u>
Deductions:					
Retiree Health Care Benefits	10,719,095	9,663,890	11,229,934	12,700,092	12,570,679
Administrative Expenses	44,904	41,639	41,295	53,880	42,200
Total Deductions	<u>10,763,999</u>	<u>9,705,529</u>	<u>11,271,229</u>	<u>12,753,972</u>	<u>12,612,879</u>
Net Increase (Decrease)	(47,014,745)	40,957,681	37,690,795	44,197,415	(6,882,545)
Net Position Restricted for OPEB					
January 1	311,163,146	270,205,465	232,514,670	188,317,255	195,199,800
December 31	<u>\$ 264,148,401</u>	<u>\$ 311,163,146</u>	<u>\$ 270,205,465</u>	<u>\$ 232,514,670</u>	<u>\$ 188,317,255</u>

Metropolitan Water Reclamation District Retiree Health Care Trust
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STATISTICAL SECTION

STATEMENTS OF CHANGES IN FIDUCIARY NET POSITION (Continued)

Last Ten Years

	Year Ended 2017	Year Ended 2016	Year Ended 2015	Year Ended 2014	Year Ended 2013
Additions:					
Contributions by Employer	\$ 18,430,657	\$ 19,916,860	\$ 18,316,713	\$ 33,716,523	\$ 33,834,831
Total Contributions	<u>18,430,657</u>	<u>19,916,860</u>	<u>18,316,713</u>	<u>33,716,523</u>	<u>33,834,831</u>
Net Appreciation (Depreciation) in Fair Value of Investments	21,208,737	6,576,376	(5,301,623)	2,266,999	13,146,950
Interest and Dividends	4,225,263	4,013,404	3,333,594	3,306,458	1,715,664
Total Investment Return (Loss)	25,434,000	10,589,780	(1,968,029)	5,573,457	14,862,614
Less Investment Expenses	(41,750)	(42,000)	(42,000)	(42,015)	(42,575)
Net Investment Income (Loss)	25,392,250	10,547,780	(2,010,029)	5,531,442	14,820,039
Total Additions	<u>43,822,907</u>	<u>30,464,640</u>	<u>16,306,684</u>	<u>39,247,965</u>	<u>48,654,870</u>
Deductions:					
Retiree Health Care Benefits	13,430,657	14,916,860	13,316,713	13,716,524	13,834,831
Administrative Expenses	36,900	32,254	35,674	40,249	38,530
Total Deductions	<u>13,467,557</u>	<u>14,949,114</u>	<u>13,352,387</u>	<u>13,756,773</u>	<u>13,873,361</u>
Net Increase	30,355,350	15,515,526	2,954,297	25,491,192	34,781,509
Net Position Restricted for OPEB					
January 1	164,844,450	149,328,924	146,374,627	120,883,435	86,101,926
December 31	<u>\$ 195,199,800</u>	<u>\$ 164,844,450</u>	<u>\$ 149,328,924</u>	<u>\$ 146,374,627</u>	<u>\$ 120,883,435</u>

**Metropolitan Water Reclamation District Retiree Health Care Trust
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STATISTICAL SECTION

SCHEDULE OF REVENUES BY SOURCE

Year Ended	Employer Contributions	Net Investment Income (Loss)	Total Additions
2022	\$ 15,719,095	\$ (51,969,841)	\$ (36,250,746)
2021	14,663,890	35,999,320	50,663,210
2020	16,229,934	32,732,090	48,962,024
2019	17,700,092	39,251,295	56,951,387
2018	17,570,679	(11,840,345)	5,730,334
2017	18,430,657	25,392,250	43,822,907
2016	19,916,860	10,547,780	30,464,640
2015	18,316,713	(2,010,029)	16,306,684
2014	33,716,523	5,531,442	39,247,965
2013	33,834,831	14,820,039	48,654,870

SCHEDULE OF RETURN ON INVESTMENTS

Year Ended	Year-End Investment Balance	Annual Rate of Return
2022	\$ 264,038,504	(16.46)%
2021	311,103,144	13.09 %
2020	270,139,190	13.81 %
2019	232,445,765	20.48 %
2018	188,236,277	(5.87)%
2017	195,140,843	15.06 %
2016	164,772,053	6.90 %
2015	149,237,550	(1.39)%
2014	146,317,546	4.87 %
2013	120,681,050	16.29 %

Metropolitan Water Reclamation District Retiree Health Care Trust
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STATISTICAL SECTION

SCHEDULE OF EMPLOYER CONTRIBUTIONS

Year Ended	Benefit Payments (1)	Contribution to Trust	Total
2022	\$ 10,719,095	\$ 5,000,000	\$ 15,719,095
2021	9,663,890	5,000,000	14,663,890
2020	11,229,934	5,000,000	16,229,934
2019	12,700,092	5,000,000	17,700,092
2018	12,570,679	5,000,000	17,570,679
2017	13,430,657	5,000,000	18,430,657
2016	14,916,860	5,000,000	19,916,860
2015	13,316,713	5,000,000	18,316,713
2014	13,716,524	20,000,000	33,716,524
2013	13,834,831	20,000,000	33,834,831

(1) Net benefit payments are paid directly by the District. Amounts are not paid through the Trust. The Plan pays a single benefit level and type: post-retirement medical and prescription drug coverage. No dental, life, disability, or child coverage is provided by the Plan.

HISTORY OF BENEFIT PAYMENTS

Year Ended	Number of Retirees & Beneficiaries	Retiree Benefit Payments	Average Annual Benefit	Average Monthly Benefit
2022	1,959	\$ 10,719,095	\$ 5,472	\$ 456
2021	1,959	9,663,890	4,933	411
2020	1,978	11,229,934	5,677	473
2019	1,978	12,700,092	6,421	535
2018	1,943	12,570,679	6,470	539
2017	1,943	13,430,657	6,912	576
2016	1,962	14,916,860	7,603	634
2015	1,962	13,316,713	6,787	566
2014	1,964	13,716,524	6,984	582
2013	1,964	13,834,831	7,044	587

Final average salaries of retirees are excluded from this schedule because rates of earnings are not used to calculate retiree health care benefits.

**Metropolitan Water Reclamation District Retiree Health Care Trust
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STATISTICAL SECTION

SCHEDULE OF EXPENSES BY TYPE

Year Ended	Investment Consulting Fees	External Audit Fees	Legal Fees	Fiduciary Insurance	Custodian Transaction Fees	Total Expenses
2022	\$ 59,333	\$ 34,860	\$ —	\$ 10,044	\$ —	\$ 104,237
2021	55,000	33,100	—	8,539	—	96,639
2020	55,000	33,200	—	8,095	—	96,295
2019	55,000	32,200	15,000	6,680	—	108,880
2018	55,000	35,500	—	6,700	—	97,200
2017	42,750	30,600	—	6,300	—	79,650
2016	42,000	26,000	—	6,254	—	74,254
2015	42,000	29,600	—	6,074	—	77,674
2014	42,000	28,300	—	11,949	15	82,264
2013	42,000	27,200	—	11,330	575	81,105