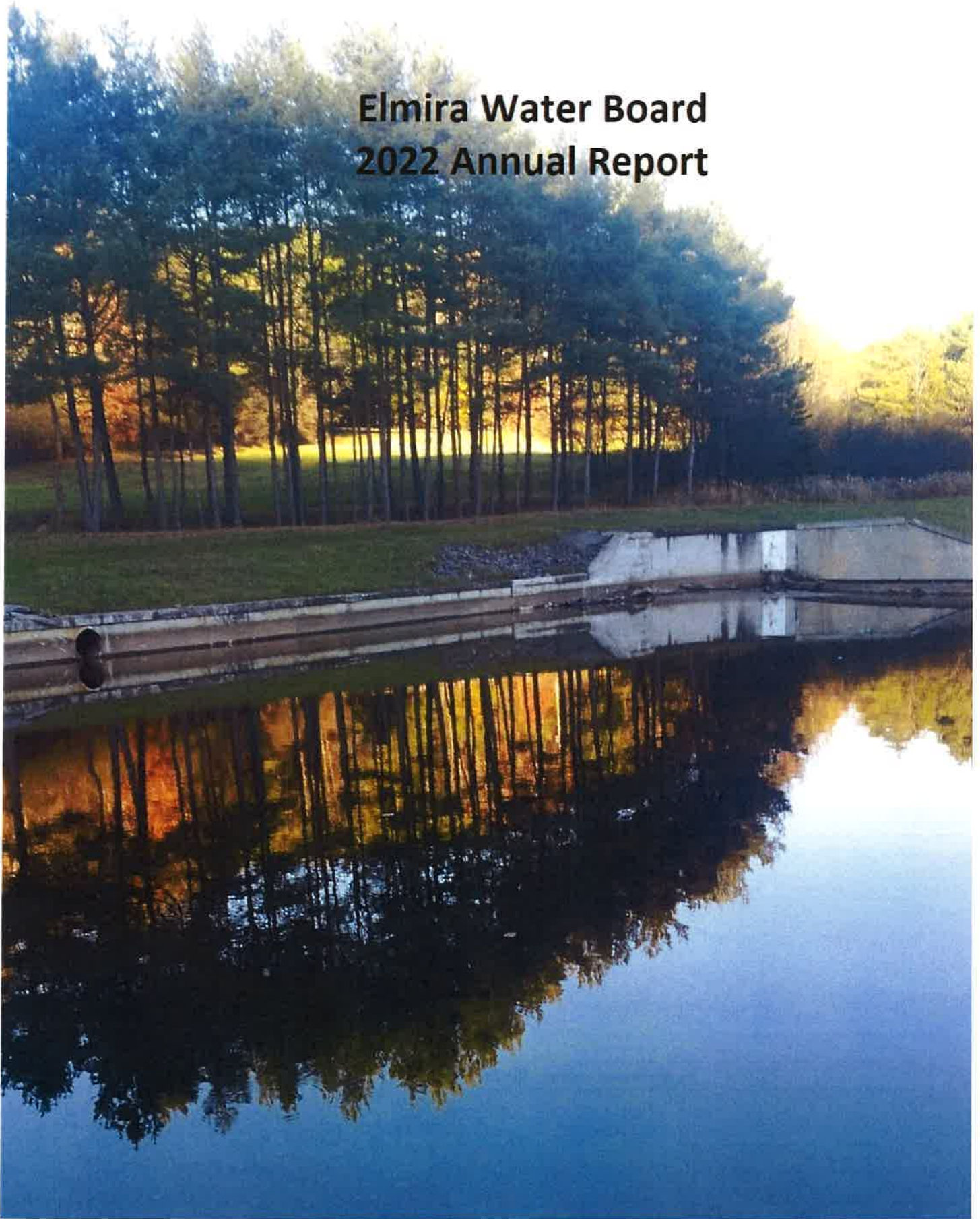


# Elmira Water Board 2022 Annual Report



To find out more about the  
Elmira Water Board, visit us at our  
Website

[www.elmirawaterboard.org](http://www.elmirawaterboard.org)

or email us at

[waterinfo@elmirawaterboard.org](mailto:waterinfo@elmirawaterboard.org)

Front cover features the Hoffman Storage Reservoir.



Martin D. Chalk, President



Charles A. Shaffer, Vice President

## COMMISSIONERS



Danny W. Gray



Robert L. Briggs



M. Robby Robertson

## **The Elmira Water Board**

<b>President</b>	<b>Term</b>
Martin D. Chalk	2019-2024

<b>Vice President</b>	<b>Term</b>
Charles A. Shaffer	2022-2023

<b>Commissioners</b>	<b>Term</b>
Danny W. Gray	2020-2025
Robert L. Briggs	2021-2026
M. Robby Robertson	2022-2027

**Corporate Counsel**  
John J. Ryan, Jr.

**General Manager**  
Alyssa L. Melens

**Secretary-Treasurer**  
Kyle M. Wieder

The Commissioners of the Elmira Water Board are elected officials of the City of Elmira authorized and empowered by Charter to make, publish and enforce rules and regulations necessary for the efficient operation of the water works system.

The work done by the Commission, and authorized by the Charter, is to conduct studies essential to developing and maintaining adequate and continuous supplies of potable water and to establish water rates adequate to finance system improvements and operations.

The Board meets monthly at the Elmira Water Board Filtration Plant located at One Fountain Drive, Elmira, New York 14905. Meetings are open to the public and schedules can be obtained by visiting our website at [www.elmirawaterboard.org](http://www.elmirawaterboard.org).

The Elmira Water Board ended 2022 at 91% of our expense budget and 106% of our revenue budget.

Unsure of the continued potential impacts of the pandemic, we budgeted conservatively for metered water revenue as well as miscellaneous fees. The increase in overall revenue was primarily due to the grant revenue received for the Lead Service Line Replacement Program (LSLRP). The LSLRP was awarded to the Water Board in 2018 by the New York State Department of Health to replace existing lead service lines throughout our distribution system.

During 2022 there were several factors that resulted in fluctuations in expenditures. Several items came in under budget for the year due to lower costs and conservative budgeting, such as: materials, gravel/loam and leak detection, off-set by an increase in costs for chemicals, safety supplies, blacktop and fuel. The Water Board's yearly payment to the New York State and Local Employees' Retirement System was another contributing factor to the overall decline in expenses, coming in at 75% of budget due to a decrease in the contribution rates for each membership tier.

Our employees continued to work diligently on leak detection throughout the year; in doing so we are able to locate and repair main breaks before they surface. We recognize all of the dedicated employees who worked tirelessly to ensure our customers had limited interruption in water service.

Our staff understands its obligation to be conscientious of all spending, which is closely monitored throughout the year. In the year ahead, we continue to remain committed to the task of fiscal responsibility.

Capital spending details are in the Board's "Letter to the Mayor" attached to this annual report.

#### Staff Changes:

Congratulations to Tim Hazlett, Facilities Supervisor, and Rose Martino, Analytical Chemist, for their many years of service to the Elmira Water Board. Tim and Rose both retired in 2022 with a combined total of 57 years of employment.

We welcomed one new employee in 2022. Kaden Cole joined the Elmira Water Board in October as the Analytical Chemist. Kaden graduated from the State University of New York at Fredonia in the spring of 2022.

Congratulations to Ben Appleby on his promotion from Skilled Mechanic to Facilities Supervisor. Ben has proved to be a great asset to the department and to the Elmira Water Board. Chris Aderhold and Terry Bliss were both promoted to Meter Repairer from Meter Reader and Tyler DuPuy was also promoted to Meter Repairer from Skilled Mechanic. Chris, Terry and Tyler are valuable assets to the Meter Department and we look forward to seeing them grow and expand their knowledge of the department. These promotions are a result of hard work and a willingness to go above and beyond their normal duties.

Congratulations to Terry Bliss, Tyler Corter, Tyler DuPuy, Bob Leonard, Jason Roosa and Travis Victor all on receiving their Distribution Systems Operator Class D License.

#### Board of Commissioner Changes:

John Burin resigned from the Board in June 2022 after being appointed in June 2017.

In June 2022, newly elected to the Board was Robby Robertson. Having the most votes in the election, Robby won the 5-year term and Charles (Charlie) Shaffer won the 1-year term.

Alyssa L. Melens  
General Manager

Elmira Water Board Directory

**Alyssa L. Melens, General Manager**

(607) 733-9179

**Main Office**

Monday Through Friday 9:00 AM to 4:00 PM

Customer Service & Billing Information

(607) 733-9179

**David McCarty, Chief Water Treatment Operator**

(607) 732-2277

**Filtration Plant**

24/7 Water Quality Questions &

To Report an Emergency

(607) 732-2277

**Elmira Water Board Website**

[www.elmirawaterboard.org](http://www.elmirawaterboard.org)

Public Elmira Water Board Meetings

1 Fountain Drive, Elmira, NY

Call Main Office for dates and times

(607) 733-9179

**Other Important Water Numbers**

Chemung County Health Department

To answer water questions

(607) 737-2019

Chemung County Health Department Website

(click on the environmental tab to view the drinking water page)

[www.chemungcountyhealth.org](http://www.chemungcountyhealth.org)

Environmental Protection Agency

Safe Drinking Water Hotline

1-800-426-4791

May 12, 2023

To the Honorable Mayor and Council of the City of Elmira, New York:

The legislation creating the Elmira Water Board requires that we submit an annual report to the City, which summarizes our activities and work completed during the calendar year. In addition, the Charter requires that we advise you of our financial condition. Our audited financial statement for the year ending December 31, 2022 has been included for your review.

### **Operational Information**

Many of the challenges the Water Board faced in 2020 and 2021 subsided in 2022 as the New York State ordered moratorium on the shut off of utilities for non-payment finally came to an end. The ability to shut off for non-payment resulted in an increase in collections and an overall decrease in receivables. In an effort to assist low income households in paying the cost of water and sewer services New York State initiated the Low Income Housing Water Assistance Program (LIHWAP). LIHWAP is a benefit based on the actual amount of water arrears, up to a maximum of \$2,500 per water provider per applicant household. In 2022 LIHWAP payments made to the Water Board totaled approximately \$37,000.

In other areas of the business, various supply constraints have continued to affect the availability and pricing of items from pipe and fittings to water treatment chemicals.

The Elmira Water Board currently has a total of 43 employees in its Filtration, Meter, Billing Office, Facilities, Maintenance, and Engineering/Administration departments. We provide service to approximately 17,500 accounts with an estimated population of 54,000. Over the last two decades the population has declined approximately 23% (in 1998 the population we served was estimated to be 70,000). This decline in population has been the largest contributing factor in the 28% decrease in billed usage over the same timeframe. Additional contributing factors in this decline in billed usage include: the mandate for low flow fixtures, aging water meter stock, and customer conservation efforts that are partly driven by rising water prices.

Approximately 1.85 billion gallons of water were pumped, treated and distributed to our customers in 2022. Our raw water sources are primarily the Chemung River and two well fields in close proximity to the river on Foster Island and Hudson Street. The raw water is blended and then pumped to our treatment facilities where it undergoes coagulation and sedimentation for solids removal. Gravity flow is used to move the settled water to the dual media filter beds for final treatment and disinfection.

Our distribution system contains 225 miles of water mains, 1,253 hydrants, and several thousand valves and service lines. In addition to our treatment facilities, we operate and maintain six pumping stations, four finished water reservoirs, and six wells.

Of our 225 miles of water mains, more than half is in excess of 100 years old. Included is a map from our GIS showing the water mains color coded by age; the red mains (from 1915 and earlier) make up a large part of our current system. The majority of the water mains within the City of Elmira are pre-1915 (many are late 1800's), along with a portion of the Town of Elmira and a large portion of Elmira Heights.

Age is a factor in the continued serviceability of our distribution system. Water industry publications give widely varying figures for the service life of various piping materials. For cast iron (about 74% of our system) this ranges from 50 to 100 years on a nationwide basis from some sources, to 100-120 years in the northeast for small and medium systems, from an AWWA study. The Elmira Water Board is considered a medium sized water system.

Additional factors, such as local soil conditions and installation practices in use at the time can greatly impact the service life. Corrosion issues and soil conditions influence the service life within our distribution system, and can affect new ductile iron as well as old cast iron pipes. Attached are two recent pictures of water mains; one installed in 1972 on East Water Street across from the site of a former power plant where corrosion was evident on other nearby conduits, and one of a pipe installed in 1991 in a former swampland where the fill appeared to contain some ash, contributing to corrosive soil conditions.

Conditions inside a water main are also a concern. We have extensive tuberculation problems in our mains. This condition is common with unlined cast iron pipes and surface water sources; cement lined pipes do not have this problem. Cement lining began around the mid 1930's and has been a standard on ductile iron for many years. Tuberculation can greatly degrade water quality and hydraulic capacity. This can also have a negative impact on the flows available to large volume users such as the hospitals, larger factories and the two prisons, and can also restrict flows available for fire fighting.

Attached are a couple pictures showing the extent of the tuberculation in our mains. These are typical conditions inside our unlined cast iron pipes. More than half of our system, including most of the older water mains within the City, are in the condition indicated in these pictures.

Approximately 100 miles of water main and 2,500 valves are reaching or have reached the end of their useful lives. With each passing year, the risk of experiencing a significant breakdown and loss of serviceability increases. The Elmira Water Board is extremely concerned about this situation and believes enhancing our replacement program is crucial to ensure the continued operation and reliability of our water distribution system. The cost of replacing this vital infrastructure will be in the tens of millions of dollars.

In addition to aging water mains, the age and condition of our valves are also a great concern. The service life of a valve is typically 40 – 60 years. We have approximately 5,000 valves in our system, many of which were installed in the 1920's and 1930's. Larger valves (16" – 20") can cost \$20,000-\$25,000 per valve to install. Often, a scheduled valve replacement results in the replacement of several nearby valves, as the ones needed for a shutdown may not be operable.

We also have over 17,500 service laterals to customer premises. The majority of our service lines are copper, but we still have approximately 200 lead service lines that need to be replaced. The lead lines have well-publicized problems and take priority on replacement. The wrought iron lines are subject to the same tuberculation inside as bare cast iron lines, degrading water quality and choking off flow. Externally, they are susceptible to corrosion. In 2017 the Water Board was awarded funds through the New York State Lead Service Line Replacement Program (LSLRP) to facilitate the replacement of lead service lines. This reimbursement program has been extended through February 2024. In addition, the City of Elmira is directing some funding through the American Rescue Plan to cover lead service line replacement costs that the NYS program does not.



Precise meter readings are crucial to ensuring accurate billing and collection figures. Metered water sales accounted for 90% of our revenue for 2022. We provide service to approximately 17,500 accounts; 150 accounts are billed monthly and the remaining accounts are read and billed bi-monthly. The majority of the accounts billed monthly have larger meters (1 ½” and above), which are changed out as needed. An estimated 12,000 residential meters are at the end of their service life and will be replaced in the years ahead as we continue our meter replacement and radio-read project. Residential meters are expected to cost approximately \$1,625,000 and radio equipment for all 17,500 meters could cost an additional \$2,200,000. Our system losses have increased over the last several years and the radio read equipment will significantly enhance our ability to monitor our system, gather data, help customers detect potential leaks and aid in reducing our distribution system water losses.

While metered water sales account for the majority of the revenue billed we also bill for miscellaneous customer fees, penalties assessed on overdue bills and fire protection. The total revenue for 2022 was 106% of the amount budgeted, primarily due to the NYS issued moratorium on shut-off’s ending and the additional fees billed for shut-off’s, which was not accounted for in the 2022 budget as the future of shut-off’s was unknown at the time.

Overall operating expenses were under budget for 2022. Employee wage and benefit costs represented 54% of the total operating expenses for 2022. Employee Health Insurance was slightly under budget as well as employee wages.

## **Capital Projects**

### Water Main Replacement & Water Line Main-To-Curb Replacements

Our maintenance crews are responsible for the ongoing repair, upgrade, and operation of our water distribution system. Our system encompasses the City of Elmira, the Village of Elmira Heights, and portions of the Towns of Southport, Horseheads, and Elmira. We strive to continuously update our infrastructure.

The Elmira Water Board’s maintenance crews also installed various sections of replacement mains. In 2022, crews installed the following 1,392 feet of water main to replace existing water mains for a total cost of \$79,994:

McAmbly Avenue	349 feet – 4” Ductile Iron
Johnson Street	1,043 feet – 6” Ductile Iron

When crews replace mains, they also evaluate the need for the installation and replacement of valves, hydrants, and service line connections and complete these upgrades as needed. In 2022, our crews replaced 35 valves for a total cost of \$74,582 and 54 hydrants for a total cost of \$148,033. By continuing to replace valves throughout the distribution system, we will be better prepared for emergencies as they arise.

During the year there were also 147 main to curb service lines replaced or added for a total cost of \$165,718; 145 of these service line replacements were lead service lines which were upgraded to copper as part of the New York State Clean Water Infrastructure Act of 2017 Lead Service Line Replacement Program (LSLRP).

## Capitalized Items

During 2022 the Water Board also had the following capital expenditures:

### Filter Plant Improvements

Variable Frequency Drive	\$ 19,320
Turbidity Meters (2)	\$ 13,691

### Maintenance Department

Asphalt Hot Box	\$ 52,169
Float Paver	\$ 18,500

### Meter Department

(8) Large Meters (1 ½" to 6")	\$ 14,320
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### Facilities Improvements/Equipment

Belt Press – Filtration Plant	\$ 28,494
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### Vehicles

Vehicles/Trucks (1)	\$ 33,997
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### Engineering

SubSurface Leak Detector	\$ 6,017
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## Other Activities

The Elmira Water Board is vigilant in its mission to discover and repair leaks. Our Maintenance, Meter and Engineering Departments are trained in leak detection and continually find and repair leaks. Water leaks on mains or services and several hydrant leaks, all of varying magnitude, were discovered and located through the use of electronic leak noise detectors and computerized correlators. Our maintenance crews subsequently repaired these leaks.

### Village of Wellsburg

The water sold to the Village of Wellsburg amounted to \$33,366 in additional revenue.

### Town of Big Flats

The Elmira Water Board has an Intermunicipal Agreement with the Town of Big Flats to provide potable water upon request. The two systems are connected by an interconnection which enables each party to provide water to the other. Under this agreement free water is provided to the Town from June to September in order to maintain an acceptable chlorine residual at the service entrance to Southern Tier Crossing. In addition to this free water supplied to the Town the agreement also permits both parties to supply water to the other party should a water supply emergency arise. In 2022 there was no additional water supplied.

While growth within its distribution system remains stagnant for the Elmira Water Board, opportunities to expand beyond the geographical system to help increase the revenue base are actively sought and encouraged.

## Goals

Infrastructure improvements are essential to the maintenance of the distribution system and are a top priority in budgetary planning. Reinvesting revenue funds back into the infrastructure is critical to maintaining the 140+ year old-system.

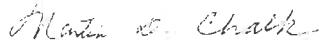
We will also continue replacing lead service lines as part of the NYS Lead Service Line Replacement Grant Program.

We have also been awarded an EFC grant of approximately \$4,200,000 for distribution system improvements. The EWB must cover 40% of the costs of these grant projects. The first phase, the replacement of a 16" water main on West Water Street from College Avenue to Railroad Avenue, was completed in 2020.

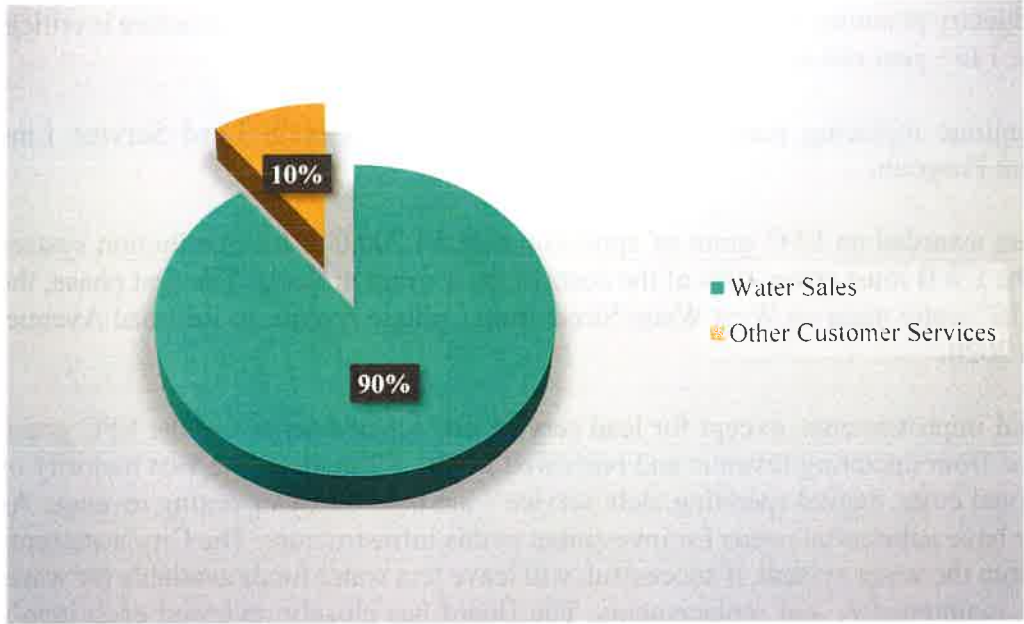
Funding for capital improvements, except for lead service line replacements and the EFC grant, for 2023 will come from operating revenue and borrowed funds. Ultimately, the vast majority of all costs - operational costs, capital spending, debt service – are paid for by operating revenue. As detailed above we have substantial needs for investment in this infrastructure. The City's attempts to divert money from the water system, if successful, will leave less water funds available for water system operation, maintenance, and replacements. The Board has closely reviewed each item's necessity and will monitor all spending throughout the year.

In closing, the Elmira Water Board would like to thank the officials, management, and staff of the City of Elmira for your continued assistance and support during 2022.

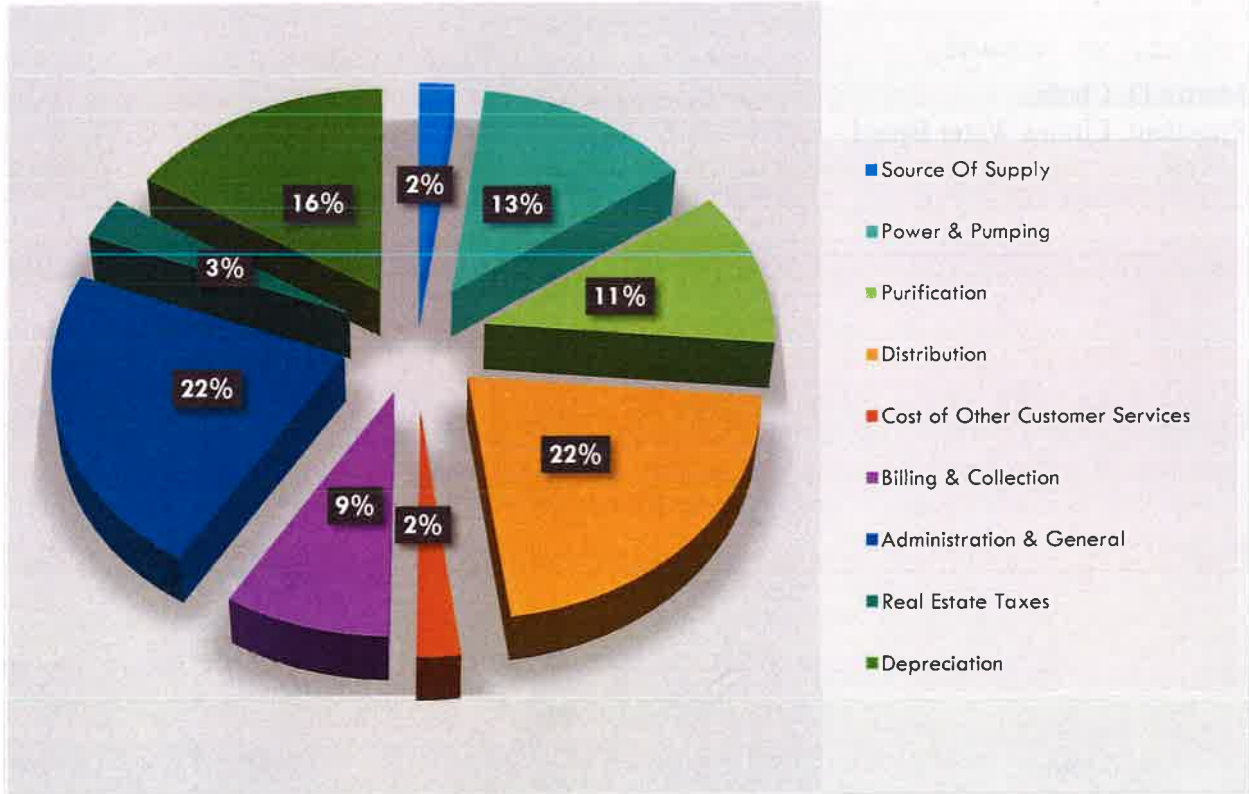
Respectfully Submitted,



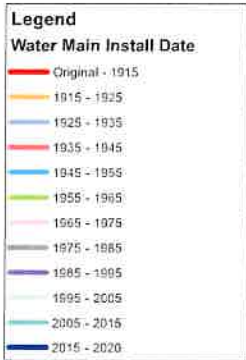
Martin D. Chalk,  
President, Elmira Water Board



Operating Revenues 2022 Fiscal Year



Operating Expenses 2022 Fiscal Year







Washington/N. Main 6/18/18  
10" Cast Iron Installed late 1800's

W. 1st St., between Underwood & Arcadia  
6" Cast Iron, Break on 4/10/19  
Installed in 1915.





**ELMIRA WATER BOARD**  
**(An Enterprise Fund of the City of Elmira, New York)**

**ELMIRA, NEW YORK**

**AUDITED FINANCIAL STATEMENTS**

**OTHER FINANCIAL INFORMATION**

**AND**

**INDEPENDENT AUDITOR'S REPORT**

**DECEMBER 31, 2022 AND 2021**

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## INDEPENDENT AUDITOR'S REPORT

Elmira Water Board  
(An Enterprise Fund of the City of Elmira, New York)

### **Report on the Audit of the Financial Statements**

#### ***Opinion***

We have audited the financial statements of Elmira Water Board, an enterprise fund of the City of Elmira, New York, which comprise the statements of net position as of December 31, 2022 and 2021, and the related statements of activities and changes in net position and cash flows for the years then ended, and the related notes to the financial statements.

In our opinion, the accompanying financial statements present fairly, in all material respects, the net position of Elmira Water Board as of December 31, 2022 and 2021, and the changes in its net position and its cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

#### ***Basis for Opinion***

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of Elmira Water Board, and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. 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 Elmira Water Board's ability to continue as a going concern for one year after the date that the financial statements are available to be issued.

### ***Auditor's 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 auditor's 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 Elmira Water Board'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 Elmira Water Board'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 management's discussion and analysis, the schedule of the Company's proportionate share of the net pension liability, schedule of Company contributions - pension, and schedule of changes in the Company's total other postemployment benefits liability and related ratios on pages 6 through 9 and 33 through 35, 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.

*Mengel, Metzger, Barw & Co. LLP*

Elmira, New York  
April 14, 2023

ELMIRA WATER BOARD  
(An Enterprise Fund of the City of Elmira, New York)  
MANAGEMENT'S DISCUSSION AND ANALYSIS  
FOR THE YEAR ENDED DECEMBER 31, 2022

**Introduction:**

Our discussion and analysis of Elmira Water Board's (the "Company") financial performance provides an overview of the Company's financial activities for the fiscal year ended December 31, 2022. It also provides a description and understanding of the various financial statements and other financial and statistical information contained herein. Please read it in conjunction with the Company's basic financial statements.

Elmira Water Board is a local water utility which provides water to various communities in the County of Chemung, New York.

**Mission:**

The Elmira Water Board is committed to providing the community with high quality water; to insuring the safety of our system; and to being fiscally responsible to our entire customer base.

**Values:**

- Water quality standards
- Customer service and satisfaction
- Fiscal responsibility
- Quality personnel
- Equitable rules and regulations

**Continuing Goals:**

- Maintain and upgrade infrastructure, consumer relations/outreach, consumer base expansion, and meet all Federal and State water quality standards.
- Utilize every resource available to meet all Federal and State water quality standards.
- Maintain and rehabilitate infrastructure to help ensure uninterrupted service.
- Expand consumer relations by educating customers on the history of the Elmira Water Board and providing water component and usage information.

**Operational Information:**

The Elmira Water Board currently provides service to approximately 17,500 accounts with an estimated population of 54,000 residents. Our institutional/industrial and wholesale customer bases represent 24% of our total water revenue and the residential customer base represents 76%.

In 2022 the average annual residential usage, in gallons, was 43,146 and the average yearly residential bill was \$354.91, which is approximately the same as 2021.

The Elmira Water Board pumped, treated, and distributed to our customers approximately 1.85 billion gallons of water in 2022. In 2022 our total water sales amounted to \$8,319,936; a decrease of \$80,439 compared to the 2021 water sales of \$8,400,375.

ELMIRA WATER BOARD  
(An Enterprise Fund of the City of Elmira, New York)

MANAGEMENT'S DISCUSSION AND ANALYSIS, Cont'd

FOR THE YEAR ENDED DECEMBER 31, 2022

The Company's collection efforts were significantly impacted in 2021 as a result of the NYS-ordered moratorium on utility shut-off's for non-payment. Further NYS-mandated constraints, which lasted for 180 days after the state of emergency was lifted, also made the collection process much more difficult. In 2022 these mandates were lifted and shut-off's for non-payment resumed. Throughout the year the Company performed approximately 1,600 shut off's which resulted in an increase in fee revenue and a decrease in receivables.

The distribution system contains 225 miles of water mains, 1,253 hydrants, approximately 5,000 valves and several thousand service lines. The Water Board Maintenance Department, consisting of 12 employees, maintains the system and updates the infrastructure throughout the distribution system.

Our water treatment plant provides twenty-four/seven supervision of water production. The Filtration Department's 10 employees oversee the filtration process. In conjunction with the Filter Plant, we operate and maintain six pumping stations, four finished water reservoirs, and six wells. The Water Board's Facilities Department, which consists of five employees, services these structures and related equipment as well as all other Water Board assets.

Residential and commercial water meters are read by our Meter Department, which total over 100,000 reads per year. The five employees in the department are also responsible for the installation and maintenance of meters, service line inspections, and all other customer service related activities.

The Main Office, with its 5 employees, bills all residential and commercial accounts (including fire lines and out-of-district hydrants), processes payments from customers, provides customer service, administers delinquent accounts, and performs all accounting functions, i.e. accounts payable, account receivable and employee payroll for the Elmira Water Board.

Employee wage and benefit costs comprise 54% of the operating expenses of the Water Board in 2022. The mandated New York State pension cost continues to be a financial strain to the operations of the Company. The Company makes every effort to reserve the needed contributory funds and make prepaid payments to take advantage of extended New York State pension discounts.

**Capital Projects:**

In 2022 the Company's maintenance department installed 1,392 feet of ductile iron water main to replace existing mains. The total capitalized cost of this work was \$79,994.

The engineering and maintenance departments also evaluate the need for the installation or replacement of valves, hydrants, and service line connections throughout the distribution system. In 2022 the Company replaced 35 valves for a total cost of \$74,582 and 54 hydrants for a total cost of \$148,033. By continuing to replace valves throughout the distribution system, the Company will be better prepared for emergencies as they arise.

In 2017 the Company was awarded funds through the New York State Clean Water Infrastructure Act of 2017 Lead Service Line Replacement Program (LSLRP) to facilitate the replacement of lead service lines. This reimbursement program has been extended through February 2024. During the year there were 147 main to curb service lines replaced or added for a total cost of \$165,718; 145 of these service line replacements were lead service lines which were upgraded to copper. The total grant revenue received through the NYS LSLRP during 2022 was \$251,965 and at December 31, 2022 there is an outstanding grant receivable of \$123,870.

ELMIRA WATER BOARD  
(An Enterprise Fund of the City of Elmira, New York)

MANAGEMENT'S DISCUSSION AND ANALYSIS, Cont'd

FOR THE YEAR ENDED DECEMBER 31, 2022

Throughout the year the Company also had the following capital expenditures: the replacement of 8 large meters (1 ½" to 6") for a total cost of \$14,320; the replacement of one (1) pickup truck for \$33,997; the purchase of an asphalt hot box for \$52,169; the replacement of a Variable Frequency Drive at the Filtration Plant for \$19,320; the purchase of a float paver for \$18,500 and the repair of the Belt Press utilized for sludge for \$28,494.

**Financial Statements:**

The Statement of Activities and Change in Net Position present information showing the change in the Company's net position during the most recent fiscal year end December 31, 2022. All changes in the net position are reported as soon as the underlying event giving rise to the change occurs, regardless of the timing of cash flows. Thus, revenues and expenses are reported in this statement include all items that will result in cash received or disbursed in future fiscal periods. For example, the receipts due from customers, or the payment accrued for accumulated vacation days.

The Statement of Cash Flows provides information on the major sources and uses of cash during the year. The cash flow statement portrays net cash provided or used from operating, non-capital financing, capital financing, and investing activities.

**Current Assets and Liabilities**

Current assets include cash and cash equivalents, accounts receivable and inventory. Accounts receivable includes amounts due from customers. Current liabilities include accounts payable, accrued expenses, interest payable, deferred revenues, and the current portion (due within one year) of long-term liabilities.

Accounts payable are amounts due to vendors and other agencies. Accrued liabilities include accrued payroll, payroll taxes, and other payroll related liabilities such as accumulated sick and vacation.

**Capital Assets, Net**

The Company had been recording depreciation on its capital assets prior to implementing GASB Statement No. 34 at a rate of approximately 2% per year. As a result of the GASB pronouncement, the Company began recording depreciation on its capital assets at rates specific to each individual asset over its useful life, rather than applying a blanket rate to all capital assets.

Depreciation expense on capital assets for the year ended December 31, 2022 and 2021 was \$1,258,077 and \$1,201,020, respectively.

The Company continues to replace/rehabilitate water mains, valves, hydrants and service lines throughout our entire distribution system. Larger capital projects of this nature are sometimes funded by bonding, which is issued by the City of Elmira on behalf of the Elmira Water Board.

Construction in progress represents the expenditure of funds during the 2022 fiscal year for a pump and motor assembly for the West Elmira booster station, office furniture and computers, which were placed in service during 2023.



ELMIRA WATER BOARD  
(An Enterprise Fund of the City of Elmira, New York)

MANAGEMENT'S DISCUSSION AND ANALYSIS, Cont'd

FOR THE YEAR ENDED DECEMBER 31, 2022

Noncurrent Liabilities

Noncurrent liabilities consist of the long-term portion of debt related to the Elmira Water Board facilities. Included in long-term debt are obligations of the State of New York. Other long-term liabilities include other postretirement benefits payable and compensated absences payable (sick and vacation accruals to be paid upon departure).

Description of Expenses

- **Source of supply** includes activities related to the maintenance and operation of the raw water supply system.
- **Power and pumping** reflects activities related to powering and pumping of the water supply.
- **Purification** includes activities related to treatment and purification of the water supply.
- **Distribution** includes activities related to getting the water supply to the consumer.
- **Cost of other customer services** includes minor expenses not related to other functional categories.
- **Billing and collection** represents all support functions related to meter reading, billing, and collection of water revenues.
- **Administration and general** represents activities related to finance, personnel, and administrative functions.
- **Real estate taxes** represent property taxes paid on properties owned by the Elmira Water Board.
- **Depreciation** represents the cost/use of equipment, machinery and other properties in operations during the year.

Non-operating Revenues and Expenses

These amounts represent interest and bond administration payments on outstanding debt, interest income received on accounts at the Company's financial institution and the gain/loss on the disposal of capital assets.

Looking Forward:

The Company will continue to replace/rehabilitate mains, valves, services and hydrants throughout the distribution system. In addition, the Company is implementing a new Automated Meter Reading (AMR and AMI) technology. This type of technology has the potential for significant savings in the labor and equipment categories of expenses. The Company is also continuing to work on the replacement of lead service lines throughout its distribution system.

Contacting the Elmira Water Board's Financial Management:

For further information, contact Ms. Alyssa L. Melens, Treasurer, at 261 West Water Street, Elmira, New York 14901.

ELMIRA WATER BOARD  
 (An Enterprise Fund of the City of Elmira, New York)

STATEMENTS OF NET POSITION

	December 31,	
	2022	2021
<u>ASSETS AND DEFERRED OUTFLOWS</u>		
<u>CURRENT ASSETS</u>		
Cash	\$ 7,009,691	\$ 5,999,802
Restricted cash	1,367,150	1,373,907
Accounts receivable, less allowance for doubtful accounts of \$35,000	1,266,856	1,397,369
Inventories	910,141	646,328
TOTAL CURRENT ASSETS	10,553,838	9,417,406
 <u>DEFERRED OUTFLOWS OF RESOURCES</u>		
Prepaid expenses	294,235	308,147
Related to postemployment benefits	218,875	340,550
Related to pensions	2,140,109	2,235,260
Related to bond refunding	4,301	5,574
	2,657,520	2,889,531
 <u>OTHER ASSETS</u>		
Net pension asset	701,341	-
Capital assets, net of accumulated depreciation	33,585,022	34,176,860
	34,286,363	34,176,860
	\$ 47,497,721	\$ 46,483,797

The accompanying notes are an integral part of the financial statements.

	December 31,	
	2022	2021
<u>LIABILITIES, DEFERRED INFLOWS AND NET POSITION</u>		
<u>CURRENT LIABILITIES</u>		
Current portion of long-term debt	\$ 456,543	\$ 447,309
Accounts payable	121,110	117,646
Accrued expenses	39,000	20,886
Accrued compensation and related liabilities	57,948	53,023
Accrued interest payable	16,589	20,160
Compensated absences payable	378,224	347,430
TOTAL CURRENT LIABILITIES	<u>1,069,414</u>	<u>1,006,454</u>
<u>LONG-TERM LIABILITIES</u>		
Net postemployment benefits liability	2,132,618	2,232,636
Net pension liability	-	9,111
Long-term debt	1,565,489	2,042,518
Compensated absences payable	365,085	400,992
	<u>4,063,192</u>	<u>4,685,257</u>
<u>DEFERRED INFLOWS OF RESOURCES</u>		
Related to pensions	2,973,717	2,686,220
Related to postemployment benefits	54,854	24,124
	<u>3,028,571</u>	<u>2,710,344</u>
<u>NET POSITION</u>		
Invested in capital assets, net of related debt	31,562,990	31,687,033
Restricted for capital improvement	284,274	321,990
Unrestricted	7,489,280	6,072,719
	<u>39,336,544</u>	<u>38,081,742</u>
	<u>\$ 47,497,721</u>	<u>\$ 46,483,797</u>

ELMIRA WATER BOARD  
(An Enterprise Fund of the City of Elmira, New York)

STATEMENTS OF ACTIVITIES AND CHANGES IN NET POSITION

	Year ended December 31,	
	2022	2021
Operating revenues:		
Water sales	\$ 8,319,936	\$ 8,400,375
Other customer services and revenues	939,124	552,683
TOTAL OPERATING REVENUES	9,259,060	8,953,058
Operating expenses:		
Source of supply	165,273	76,976
Power and pumping	1,033,752	957,442
Purification	897,170	810,473
Distribution	1,702,890	1,749,994
Cost of other customer services	177,912	177,034
Billing and collection	677,458	561,901
Administration and general	1,766,459	1,867,881
Real estate taxes	243,830	246,713
Depreciation	1,258,077	1,201,020
TOTAL OPERATING EXPENSES	7,922,821	7,649,434
OPERATING INCOME	1,336,239	1,303,624
Non-operating revenues (expenses):		
Interest income	15,636	10,999
(Loss) gain on disposal of capital assets	(44,231)	30,111
Interest and bond expense	(52,842)	(75,383)
TOTAL NON-OPERATING EXPENSES	(81,437)	(34,273)
CHANGE IN NET POSITION	1,254,802	1,269,351
Net position at beginning of year	38,081,742	36,812,391
NET POSITION AT END OF YEAR	\$ 39,336,544	\$ 38,081,742

The accompanying notes are an integral part of the financial statements.

ELMIRA WATER BOARD  
(An Enterprise Fund of the City of Elmira, New York)

STATEMENTS OF CASH FLOWS

	<u>Year ended December 31,</u>	
	<u>2022</u>	<u>2021</u>
<u>CASH FLOWS - OPERATING ACTIVITIES</u>		
Receipts from services	\$ 9,389,573	\$ 8,641,618
Payments to suppliers and employees	<u>(7,168,672)</u>	<u>(7,576,651)</u>
NET CASH PROVIDED FROM OPERATING ACTIVITIES	2,220,901	1,064,967
<u>CASH FLOWS - CAPITAL AND RELATED FINANCING ACTIVITIES</u>		
Interest income received	15,636	10,999
Proceeds on disposal of capital assets	-	15,735
Purchase and construction of capital assets, net of trade in allowance	(710,470)	(857,343)
Payment of bond principal	(447,309)	(436,515)
Payment of bond interest and administrative fees	<u>(75,626)</u>	<u>(83,316)</u>
NET CASH USED FOR CAPITAL AND RELATED FINANCING ACTIVITIES	<u>(1,217,769)</u>	<u>(1,350,440)</u>
NET CHANGE IN CASH AND RESTRICTED CASH	1,003,132	(285,473)
Cash and restricted cash at beginning of year	<u>7,373,709</u>	<u>7,659,182</u>
CASH AND RESTRICTED CASH AT END OF YEAR	<u>\$ 8,376,841</u>	<u>\$ 7,373,709</u>

ELMIRA WATER BOARD  
 (An Enterprise Fund of the City of Elmira, New York)

STATEMENTS OF CASH FLOWS, Cont'd

	Year ended December 31,	
	2022	2021
<u>RECONCILIATION OF CHANGE IN NET POSITION TO NET</u>		
<u>CASH PROVIDED FROM OPERATING ACTIVITIES:</u>		
Change in net position	\$ 1,254,802	\$ 1,269,351
Adjustments to reconcile change in net position to net cash provided from operating activities:		
Interest income	(15,636)	(10,999)
Depreciation	1,258,077	1,201,020
Loss (gain) on disposal of capital assets	44,231	(30,111)
Interest and bond expense	52,842	75,383
Bond issuance costs	-	13,928
Provision for bad debts	305	(63,977)
Change in assets and liabilities:		
Accounts receivable	130,208	(247,463)
Inventories	(263,813)	(83,100)
Prepaid expenses	13,912	10,760
Deferred outflows related to postemployment benefits	121,675	260,746
Deferred outflows related to pensions	95,151	(452,638)
Net pension asset	(701,341)	
Accounts payable	3,464	(1,057,364)
Accrued expenses	18,114	(31,114)
Accrued compensation and related liabilities	4,925	11,261
Deferred inflows related to pensions	287,497	2,560,912
Deferred inflows related to postemployment benefits	30,730	(20,796)
Compensated absences payable	(5,113)	(1,886)
Net postemployment benefits liability	(100,018)	8,978
Net pension liability	(9,111)	(2,347,924)
NET CASH PROVIDED FROM OPERATING ACTIVITIES	\$ 2,220,901	\$ 1,064,967

The accompanying notes are an integral part of the financial statements.

ELMIRA WATER BOARD  
(An Enterprise Fund of the City of Elmira, New York)

NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 2022 AND 2021

NOTE A: THE COMPANY AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of reporting

Elmira Water Board (the "Company") is a local water company which provides water to various communities in the County of Chemung, New York. The Company is an enterprise fund of the City of Elmira, New York (the "City"). The City has proprietary interest in all assets and the responsibility for all obligations of the Company. The Company's accounts are segregated into a separate enterprise fund.

The financial statements of the Company have been prepared in accordance with accounting principles generally accepted in the United States of America as applied to government units. The Governmental Accounting Standards Board (GASB) is the accepted standard-setting body for establishing governmental accounting and financial reporting principles.

Revenue recognition

Revenues are recorded when billed. Residential and smaller accounts are billed bi-monthly, and all other customers are billed monthly.

Cash and restricted cash

For purposes of cash flow reporting, cash includes cash from operations and restricted cash. Collateral is required for cash balances not covered by FDIC insurance. Obligations that may be pledged as collateral are obligations of the United States and its agencies or obligations of New York State or its municipalities. At December 31, 2022 and 2021, the Company's cash balances were FDIC insured or collateralized with securities held by the pledging financial institution in the Company's name.

Accounts receivable and allowance for doubtful accounts

Accounts receivable are stated at the amount management expects to collect from outstanding balances. Management provides for probable uncollectible amounts through a provision for bad debt expense and an adjustment to a valuation allowance based on its assessment of the current status of individual receivables. Balances that are still outstanding after management has used reasonable collection efforts are written off through a charge to the valuation allowance for uncollectible accounts and a credit to the applicable accounts receivable. The allowance for uncollectible accounts at December 31, 2022 and 2021 was \$35,000. Based on the information available, the Company believes the allowance as of December 31, 2022 and 2021 is adequate. However, actual write-offs might exceed the recorded allowance.

Inventories

Inventories, consisting of supplies, parts and gasoline, are stated at the lower of cost and net realizable value.

Pensions

For purposes of measuring net pension liability (asset), deferred outflows of resources and deferred inflows of resources related to pensions, and pension expense, information about the fiduciary net position of the New York State and Local Employees' Retirement System ("the System") and additions to/deductions from the System's net position have been determined on the same basis as they are reported by the System. For this purpose, benefit payments (including refunds of employee contributions) are recognized when due and payable in accordance with the benefit terms.

ELMIRA WATER BOARD  
(An Enterprise Fund of the City of Elmira, New York)

NOTES TO FINANCIAL STATEMENTS, Cont'd

DECEMBER 31, 2022 AND 2021

NOTE A: THE COMPANY AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, Cont'd

Other postemployment benefits (OPEB)

For purposes of measuring the OPEB liability, deferred outflows of resources and deferred inflows of resources related to OPEB, and OPEB expense, information about the Company's plan has been supplied to an actuary for determination of those amounts. The Company operates the OPEB plan on a pay-as-you-go basis.

Capital assets

Capital assets are stated on the basis of cost. Expenditures for renewals and betterments are capitalized while expenditures for repairs and maintenance are charged to operations as incurred. Upon sale or retirement, the related cost and allowances for depreciation are removed from the accounts and the related gain or loss is reflected in operations. Depreciation is computed using the straight-line method on a basis considered adequate to depreciate the assets over their estimated useful lives, which range from three to one hundred seven years.

Use of estimates in the preparation of financial statements

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Subsequent events

The Company has conducted an evaluation of potential subsequent events occurring after the statement of net position date through April 14, 2023, which is the date the financial statements are available to be issued. No subsequent events requiring disclosure were noted.

NOTE B: RESTRICTED CASH

Restricted cash represents unspent note proceeds and funds set aside for future capital expenditures, debt service, and retirement or postemployment benefit contributions. Certain restricted cash funds are restricted by grantors or by law through the Company's charter. At December 31, 2022 and 2021, these amounts totaled \$284,274 and \$321,990, respectively, and were recorded as net assets restricted for capital improvement on the statements of net position. Restricted cash balances consist of the following:

	<u>December 31,</u>	
	<u>2022</u>	<u>2021</u>
Water System Improvement Fund	\$ 2,197	\$ 40,355
New York State Employee's Retirement Reserve Fund	394,917	404,045
Employee Benefit Reserve Fund	194,622	147,147
Capital Reserve Fund	282,076	281,636
Debt Service Fund	493,338	500,724
	<u>\$ 1,367,150</u>	<u>\$ 1,373,907</u>



ELMIRA WATER BOARD  
(An Enterprise Fund of the City of Elmira, New York)

NOTES TO FINANCIAL STATEMENTS, Cont'd

DECEMBER 31, 2022 AND 2021

NOTE C: CAPITAL ASSETS

Capital asset activity for the year ended December 31, 2022 follows:

	Balance January 1, 2022	Additions	Deductions	Balance December 31, 2022
	<u>2022</u>	<u>2022</u>	<u>2022</u>	<u>2022</u>
Non-depreciable capital assets:				
Land	\$ 510,227	\$ -	\$ -	\$ 510,227
Construction in process	22,785	235,194	(223,398)	34,581
TOTAL NON-DEPRECIABLE CAPITAL ASSETS	533,012	235,194	(223,398)	544,808
Depreciable capital assets:				
Source of supply	4,351,845	-	-	4,351,845
Power and pumping	4,144,553	27,091	-	4,171,644
Purification and treatment	16,102,039	67,922	(37,122)	16,132,839
Distribution	36,764,258	561,434	(55,288)	37,270,404
Other	4,414,958	42,227	(2,347)	4,454,838
TOTAL DEPRECIABLE CAPITAL ASSETS	65,777,653	698,674	(94,757)	66,381,570
Less accumulated depreciation for:				
Source of supply	(2,208,769)	(71,169)	-	(2,279,938)
Power and pumping	(3,438,566)	(62,139)	-	(3,500,705)
Purification and treatment	(11,333,922)	(295,597)	27,868	(11,601,651)
Distribution	(12,752,488)	(594,255)	20,310	(13,326,433)
Other	(2,400,060)	(234,917)	2,348	(2,632,629)
TOTAL ACCUMULATED DEPRECIATION	(32,133,805)	(1,258,077)	50,526	(33,341,356)
CAPITAL ASSETS, NET	<u>\$ 34,176,860</u>	<u>\$ (324,209)</u>	<u>\$ (267,629)</u>	<u>\$ 33,585,022</u>

ELMIRA WATER BOARD  
 (An Enterprise Fund of the City of Elmira, New York)

NOTES TO FINANCIAL STATEMENTS, Cont'd

DECEMBER 31, 2022 AND 2021

NOTE D: LONG-TERM DEBT

Long-term debt of the Company is summarized as follows:

	Year ended		December 31,	
	December 31, 2022		2022	2021
	Interest payments	Principal payments	Amount	Amount
<u>Bonds payable:</u>				
Bond payable in annual installments varying from \$105,000 to \$110,000 through November 2024 plus interest varying from 4.795% to 4.865%, payable semi-annually.	\$ 3,398	\$ 105,000	\$ 215,000	\$ 320,000
Bond payable in annual installments varying from \$125,000 to \$155,000 through August 2027 plus interest varying from 3.375% to 5.00%, payable semi-annually. (Refinanced in 2014)	32,294	120,000	690,000	810,000
Bond payable in annual installments of \$35,000 through November 2024 plus interest varying from 6.13% to 6.18%, payable semi-annually. (Refinanced in 2012)	1,435	35,000	70,000	105,000
Refunded bond payable in annual installments varying from \$96,000 to \$129,600 through May 2029 plus interest varying from 2.00% to 4.00%, payable semi-annually.	31,532	108,600	789,400	898,000
Bond payable in annual installments varying from \$52,380 to \$54,560 through May 2025 plus interest varying from 2.00% to 2.13%, payable semi-annually.	<u>3,852</u>	<u>51,640</u>	<u>160,060</u>	<u>211,700</u>
Total bonds payable	72,511	420,240	1,924,460	2,344,700
<u>Direct borrowings:</u>				
Finance lease payable due in initial interest free payment of \$45,000 and annual installments thereafter of \$29,719 including interest at 4.78% through June 2023. Collateralized by certain equipment. (1)	<u>2,649</u>	<u>27,069</u>	<u>28,363</u>	<u>55,432</u>
Total direct borrowings	<u>2,649</u>	<u>27,069</u>	<u>28,363</u>	<u>55,432</u>
Total principal and interest	<u>\$ 75,160</u>	<u>\$ 447,309</u>		
Total bonds payable and direct borrowings			1,952,823	2,400,132
Add unamortized bond premium			69,209	89,695
Less current portion			<u>(456,543)</u>	<u>(447,309)</u>
			<u>\$ 1,565,489</u>	<u>\$ 2,042,518</u>

ELMIRA WATER BOARD  
(An Enterprise Fund of the City of Elmira, New York)

NOTES TO FINANCIAL STATEMENTS, Cont'd

DECEMBER 31, 2022 AND 2021

NOTE D: LONG-TERM DEBT, Cont'd

(1) The finance lease is for the right to use certain equipment acquired in 2020 which is included in other depreciable capital assets in the statement of net position in the amount of \$126,267 at December 31, 2022 and 2021. Accumulated depreciation amounted to \$45,095 and \$27,057 for the years ended December 31, 2022 and 2021, resulting in a net book value is \$81,172 and \$99,210, respectively.

The following is a schedule of maturities of debt:

<u>Year ended December 31,</u>	<u>Principal</u>	<u>Interest</u>
2023	\$ 456,543	\$ 76,168
2024	443,120	56,827
2025	308,760	37,808
2026	267,800	25,639
2027	284,600	15,697
Thereafter	<u>192,000</u>	<u>7,680</u>
	<u>\$ 1,952,823</u>	<u>\$ 219,819</u>

Certain bonds provide for subsidized interest payments. Escrow accounts earn interest which is used to reduce interest payments. The schedule of maturities above does not include this interest subsidy.

The proceeds of the advance refunding of certain bonds were placed in escrow accounts with a trust agent and used to purchase securities to meet all debt service requirements of the refunded debt. The liability for the refunded bonds and the related securities and escrow accounts were not included in the accompanying financial statements as the Company defeased its obligations for payment of the refunded debt upon completion of the refunding transactions. At December 31, 2022, refunded bond issues and the related principal payable from escrow amounted to \$857,200.

NOTE E: EMPLOYEE BENEFIT PLAN

Plan description

The Company participates in the New York State and Local Employees' Retirement System ("the System"). This is a cost-sharing, multiple-employer defined benefit pension plan. The net position of the System is held in the New York State Common Retirement Fund ("the Fund"), which was established to hold all assets and record changes in fiduciary net position allocated to the System. The Comptroller of the State of New York serves as the trustee of the Fund and is the administrative head of the System. The Comptroller is an elected official determined in a direct statewide election and serves a four-year term. Thomas P. DiNapoli has served as Comptroller since February 7, 2007. In November 2018, he was elected for a new term commencing January 1, 2019. System benefits are established under the provisions of the New York State Retirement and Social Security Law ("RSSL"). Once a public employer elects to participate in the System, the election is irrevocable. The New York State Constitution provides that pension membership is a contractual relationship and plan benefits cannot be diminished or impaired. Benefits can be changed for future members only by enactment of a State statute. The System is included in the State's financial report as a pension trust fund. Separately issued financial statements for the System can be accessed on the Comptroller's website at [www.osc.state.ny.us/retire/about\\_us/financial\\_statements\\_index.php](http://www.osc.state.ny.us/retire/about_us/financial_statements_index.php).

ELMIRA WATER BOARD  
(An Enterprise Fund of the City of Elmira, New York)

NOTES TO FINANCIAL STATEMENTS, Cont'd

DECEMBER 31, 2022 AND 2021

NOTE E: EMPLOYEE BENEFIT PLAN, Cont'd

Benefits provided

The system provides retirement benefits, as well as death and disability benefits. Eligibility is based on Tier membership and years of service.

*Retirement*

Generally, the retirement benefit is 1.67% of final average salary for each year of service if the member retires with less than 20 years. If the member retires with 20 or more years of services, the retirement benefit increases depending on Tier membership. Final average salary is the average of the wages earned in the three highest consecutive years of employment. For Tier 3, 4 and 5 members, each year used in the final average salary calculation is limited to no more than 10% greater than the average of the previous two years. For Tier 6 members, each year used in the final average salary calculation is limited to no more than 10% greater than the average of the previous four years.

*Disability Retirement Benefits*

Disability retirement benefits are available to members unable to perform their job duties because of permanent physical or mental incapacity. There are three general types of disability benefits: ordinary, performance of duty, and accidental disability benefits. Eligibility, benefit amounts, and other rules such as any offsets or other benefits depend on a member's tier, years of service, and plan.

*Ordinary Death Benefits*

Death benefits are payable upon the death, before retirement, of a member who meets eligibility requirements as set forth by law. The first \$50,000 of an ordinary death benefit is paid in the form of group term life insurance. The benefit is generally three times the member's annual salary. For most members, there is also a reduced post-retirement ordinary death benefit available.

*Post-Retirement Benefit Increases*

A cost-of-living adjustment is provided annually to: (i) all pensioners who have attained age 62 and have been retired for five years; (ii) all pensioners who have attained age 55 and have been retired for ten years; (iii) all disability pensioners, regardless of age, who have been retired for five years; (iv) System recipients of an accidental death benefit, regardless of age, who have been receiving such benefit for five years and (v) the spouse of a deceased retiree receiving a lifetime benefit under an option elected by the retiree at retirement. An eligible spouse is entitled to one-half the cost-of-living adjustment amount that would have been paid to the retiree when the retiree would have met the eligibility criteria. This cost-of-living adjustment is a percentage of the annual retirement benefit of the eligible member as computed on a base benefit amount not to exceed \$18,000 of the annual retirement benefit. The cost-of-living percentage shall be 50 percent of the annual Consumer Price Index as published by the U.S. Bureau of Labor, but cannot be less than 1 percent or exceed 3 percent.

ELMIRA WATER BOARD  
(An Enterprise Fund of the City of Elmira, New York)

NOTES TO FINANCIAL STATEMENTS, Cont'd

DECEMBER 31, 2022 AND 2021

NOTE E: EMPLOYEE BENEFIT PLAN, Cont'd

Contributions

The System is noncontributory except for employees who joined the System after July 27, 1976, who contribute 3 percent of their salary for the first ten years of membership, and employees who joined on or after January 1, 2010 who generally contribute 3 percent of their salary for their entire length of service. For Tier 6 members, the contribution rate varies from 3 percent to 6 percent depending on salary. Generally, Tier 5 and 6 members are required to contribute for all years of service. Under the authority of the RSSL, the Comptroller annually certifies the actuarially determined rates expressly used in computing the employers' contributions based on salaries paid during the Systems' fiscal year ending March 31. The pension contribution for the years ended December 31, 2022 and 2021 amounted to \$300,112 and \$412,660, respectively.

Pension plan fiduciary net position

The components of the current-year net pension liability (asset) of the employers as of the respective measurement dates, were approximately as follows:

Measurement date	<u>March 31, 2022</u>	<u>March 31, 2021</u>
Employers' total pension liability	\$ 223,874,888,000	\$ 220,680,157,000
Plan net position	<u>(232,049,473,000)</u>	<u>(220,580,583,000)</u>
Employers' net pension (asset) liability	<u>\$ (8,174,585,000)</u>	<u>\$ 99,574,000</u>
Ratio of plan net position to the employers' total pension liability	103.65%	99.95%

Actuarial assumptions

The total pension (asset) liability for the March 31, 2022 and 2021 measurement dates was determined by using an actuarial valuation as of April 1, 2021 and 2020, respectively, with updated procedures used to roll forward the total pension (asset) liability to March 31, 2022 and 2021, respectively. The following actuarial assumptions were used in the valuation as of March 31, 2022 and 2021:

Actuarial cost method	Entry age normal
Inflation	2.7%
Salary scale	4.4%
Investment rate of return	5.9% compounded annually, net of investment expenses
Cost of living adjustments	1.4% annually
Decrements	Based upon FY 2016-2020 experience
Mortality improvement	Society of Actuaries' Scale MP-2020

ELMIRA WATER BOARD  
 (An Enterprise Fund of the City of Elmira, New York)

NOTES TO FINANCIAL STATEMENTS, Cont'd

DECEMBER 31, 2022 AND 2021

NOTE E: EMPLOYEE BENEFIT PLAN, Cont'd

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected return, 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.

The target allocation and best estimates of arithmetic real rates of return for each major asset class are summarized in the following table:

Asset Class	Target allocation	Long-term expected real rate of return
Domestic equity	32 %	3.30%
International equity	15	5.85%
Private equity	10	6.50%
Real estate	9	5.00%
Opportunistic portfolio	3	4.10%
Credit	4	3.78%
Real assets	3	5.80%
Fixed income	23	0.00%
Cash equivalents	1	-1.00%
	<u>100 %</u>	

The real rate of return is net of the long-term inflation assumption of 2.5%.

Discount rate

The discount rate used to calculate the total pension (asset) liability at March 31, 2022 and 2021 was 5.9%. The projection of cash flows used to determine the discount rate assumes that contributions from plan members will be made at the current contribution rates and that contributions from employers will be made at statutorily required rates, actuarially determined. Based upon the assumptions, the System's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability (asset).

Sensitivity of the net pension liability (asset) to the discount rate assumption

The following presents the current-period net pension liability of the Company calculated using the discount rate of 5.9%, as well as what the net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (4.9%) or 1-percentage-point higher (6.9%) than the current rate at the March 31, 2022 measurement date:

ELMIRA WATER BOARD  
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NOTES TO FINANCIAL STATEMENTS, Cont'd

DECEMBER 31, 2022 AND 2021

NOTE E: EMPLOYEE BENEFIT PLAN, Cont'd

	1% Decrease (4.9%)	Current Discount (5.9%)	1% Increase (6.9%)
Company's proportionate share of the Net Pension Liability (Asset)	\$ 1,805,244	\$ (701,341)	\$ (2,797,979)

Pension liabilities, pension expense, and deferred outflows of resources and deferred inflows of resources related to pensions

At December 31, 2022 and 2021, the Company reported an asset and liability of (\$701,341) and \$9,111 respectively, for its proportionate share of the net pension (asset) liability. The net pension (asset) liability was measured as of March 31, 2022 and 2021, and the total pension (asset) liability used to calculate the net pension (asset) liability was determined by an actuarial valuation as of April 1, 2021 and 2020. The Company's proportion of the net pension liability (asset) was based on a projection of the Company's long-term share of contributions to the pension plan relative to the projected contributions of the City of Elmira, New York, actuarially determined. At December 31, 2022 and 2021, the Company's proportion was 48% and 53%, respectively.

For the years ended December 31, 2022 and 2021, the Company recognized pension expense of \$20,241 and \$171,850, respectively. The Company reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	December 31,			
	2022		2021	
	Deferred Outflows of Resources	Deferred Inflows of Resources	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ 53,113	\$ 68,892	\$ 111,267	\$ -
Changes in assumptions	1,170,460	19,750	1,675,169	31,594
Net difference between projected and actual earnings on pension plan investments	-	2,296,598	-	2,617,138
Changes in proportion and differences between Company contributions and proportionate share of contributions	616,424	588,477	36,164	37,488
Company contributions subsequent to the measurement date	300,112	-	412,660	-
	\$ 2,140,109	\$ 2,973,717	\$ 2,235,260	\$ 2,686,220

ELMIRA WATER BOARD  
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NOTES TO FINANCIAL STATEMENTS, Cont'd

DECEMBER 31, 2022 AND 2021

NOTE E: EMPLOYEE BENEFIT PLAN, Cont'd

Deferred outflows of resources related to pensions resulting from Company contributions subsequent to the measurement date will be recognized as a reduction in the net pension (asset) liability in the year ended December 31, 2023. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense as follows:

<u>Year ended December 31,</u>	
2023	\$ (167,559)
2024	(253,817)
2025	(590,949)
2026	<u>(121,394)</u>
	<u>\$ (1,133,719)</u>

NOTE F: POSTEMPLOYMENT HEALTHCARE BENEFITS

Plan description

The Company provides medical coverage to eligible employees, retirees and dependents through a choice of four community rated health plans with Excellus Blue Cross Blue Shield. The benefits of each are outlined in the table below:

Benefits provided

	<u>Platinum 6</u>	<u>Gold 6</u>	<u>Silver 2</u>	<u>Bronze 4</u>
Deductible	None	\$1,400 / \$2,800	\$3,600 / \$7,200	\$6,550 / \$13,100
Coinsurance	None	85%	75%	100%
Out-of-Pocket Maximum	\$6,550 / \$13,100	\$2,800 / \$5,600	\$6,750 / \$13,500	\$6,750 / \$13,500
30 Day Rx Supply	\$5 / \$35 / \$70	\$5 / \$35 / \$70	\$5 / \$45 / \$90	Deductible & Coinsurance

To assist in meeting the deductible, the Company makes contributions into a Health Savings Account (HSA) for each member who enrolls in one of the high deductible health plans (Gold 6, Silver 2 and Bronze 4). The Company contributes \$1,400 / \$2,800 for Gold 6 enrollees, \$2,000 / \$4,000 for Silver 2 enrollees and \$3,450 / \$6,850 for Bronze 4 enrollees.

Dental and vision coverage is also provided to pre-65 retirees.

Eligibility

All retirees hired prior to January 1, 2018 may retire from the Company with a minimum age of fifty-five (55) and a minimum of five (5) years of state retirement eligible service in order to be eligible for postemployment healthcare benefits.



ELMIRA WATER BOARD  
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NOTES TO FINANCIAL STATEMENTS, Cont'd

DECEMBER 31, 2022 AND 2021

NOTE F: POSTEMPLOYMENT HEALTHCARE BENEFITS, Cont'd

All members hired on/after January 1, 2018 may retire from the Company with a minimum age of fifty-five (55) and a minimum of ten (10) consecutive years of service with the Company in order to be eligible for postemployment healthcare benefits. Retirees shall be eligible to select coverage of individual, self plus dependent, self plus child(ren) and family plan, however once a retiree or their dependent becomes eligible for Medicare or Medicaid, whichever comes first, the Company is no longer obligated to provide health care coverage for the retiree, spouse or dependent.

Contributions

Eligible retirees receive medical coverage from the Company until the retiree attains Medicare or Medicaid eligibility, whichever occurs first. For retirees hired prior to January 1, 2018 the Company contributes 75% of the applicable plan premium until the retiree attains age 60, at which point the Company will provide 100% coverage. For retirees hired on / after January 1, 2018 the Company contributes 75% of the applicable plan premium for the duration of the coverage period.

Employees covered by benefit terms

The following employees were covered by the benefit terms:

	<u>January 1,</u>	
	<u>2022</u>	<u>2021</u>
Inactive employees or beneficiaries currently receiving benefit payments	25	31
Active employees	42	43
	<u>67</u>	<u>74</u>

ELMIRA WATER BOARD  
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NOTES TO FINANCIAL STATEMENTS, Cont'd

DECEMBER 31, 2022 AND 2021

NOTE F: POSTEMPLOYMENT HEALTHCARE BENEFITS, Cont'd

Actuarial methods and assumptions

The total other postemployment benefit (OPEB) liability for the January 1, 2021 measurement date was determined by using an actuarial valuation as of January 1, 2020 with actuarial roll forward techniques to calculate the results as of the measurement date. The total OPEB liability for the January 1, 2022 measurement date was determined by using an actuarial valuation as of January 1, 2022. The following actuarial assumptions were used in the valuation applied to all periods in the measurement, unless otherwise specified:

Actuarial Cost Method	Entry-Age Normal - Level Percent of Pay
Plan Type	Single Employer Defined Benefit Plan
Discount Rate	2.06%, as of January 1, 2022 2.12%, as of January 1, 2021
Salary Scale	3%
Rate of Inflation	2.5%, as of January 1, 2022 2.4%, as of January 1, 2021
Mortality	The RPH-2014 Mortality Table sex distinct, with generational mortality adjusted to 2006 using scale MP-2014, and projected forward with scale MP-2021.
Turnover & Retirement Incidence	Rates of decrement due to retirement based on the experience under the New York State & Local Retirement System as prepared by the Department of Civil Service's actuarial consultant in the report titled, <u>Development of Recommended Actuarial Assumption for New York State/SUNY GASB 45 Valuation (August 2020)</u> .

ELMIRA WATER BOARD  
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NOTES TO FINANCIAL STATEMENTS, Cont'd

DECEMBER 31, 2022 AND 2021

NOTE F: POSTEMPLOYMENT HEALTHCARE BENEFITS, Cont'd

Medical Trend	To Fiscal Year Ending	Trend
	2023	7.00%
	2024	6.50%
	2025	6.00%
	2026	5.20%
	2027	5.16%
	2032	4.97%
	2037	4.97%
	2042	4.78%
	2052	4.62%
	2062	4.53%
	2072	4.15%
	2082	3.94%
	2092	3.94%

The above trend rates were developed using the baseline projection of the SOA Long-Run Medical Cost Trend Model (2022). The short term (first 4 years) trend rates were based on the recent premium rate history for the Company. The long-term (after 4 years) trend rates were based on the following assumptions:

Rate of Inflation: 2.5%

Rate of Growth in Real Income/GDP per capita: 1.4%

Extra Trend due to Technology and other factors: 1.0%

Health Share of GDP Resistance Point: 20%

Dental/Vision Trend 2%

Election Percentage Upon retirement it is assumed that eligible employees will elect to participate in the Company's OPEB plan at the following rates:

Participation Group	% Electing Coverage
Retiree	100%
Retiree's Spouse	85%
Surviving Spouse	0%

ELMIRA WATER BOARD  
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NOTES TO FINANCIAL STATEMENTS, Cont'd

DECEMBER 31, 2022 AND 2021

NOTE F: POSTEMPLOYMENT HEALTHCARE BENEFITS, Cont'd

Health Plan Election                      It has been assumed for this valuation that future retirees will enroll in the Company's medical plans at the following rates:

<u>Plan</u>	<u>% Electing Coverage</u>
Gold 6	70%
Platinum 6	5%
Bronze 4	25%
Silver 17	0%

Marriage Rate                              It is assumed that 70% of retirees will be married at the time of their retirement, with the male spouse assumed to be approximately 3 years older than the female.

Morbidity                                    Based on results from Table 5 of "Health Care Costs - From Birth to Death" by Dale Yamamoto, part of the Health Care Cost Institutes Independent Report Series, June 2013.

Per Capita Costs                            The Company provides four community rated plans to all pre 65 actives and retirees. Age-adjusted premiums, including administrative fees, were used to calculate the actuarial accrued liability.

Discount rate

The discount rate used to calculate the total OPEB liability was 2.06% and 2.12% as of January 1, 2022 and 2021, respectively. With a pay-as-you-go funded plan the discount rate is calculated using a yield index rate for 20-year, tax exempt general obligation municipal bonds with an average rating of AA/Aa or higher.

Changes in the total OPEB liability

	<u>Year ended December 31,</u>	
	<u>2022</u>	<u>2021</u>
Balance at beginning of year	\$ 2,232,636	\$ 2,223,658
<u>Changes for the year:</u>		
Service cost	91,675	83,773
Interest	47,270	60,268
Differences between expected and actual experience	(67,187)	-
Changes in assumptions and other inputs	17,444	80,652
Benefit payments	(189,220)	(215,715)
	<u>(100,018)</u>	<u>8,978</u>
Balance at end of year	<u>\$ 2,132,618</u>	<u>\$ 2,232,636</u>

ELMIRA WATER BOARD  
(An Enterprise Fund of the City of Elmira, New York)

NOTES TO FINANCIAL STATEMENTS, Cont'd

DECEMBER 31, 2022 AND 2021

NOTE F: POSTEMPLOYMENT HEALTHCARE BENEFITS, Cont'd

Changes of assumptions and other inputs reflect a change in the discount rate from 2.12% on January 1, 2021 to 2.06% on January 1, 2022.

Sensitivity of the total OPEB liability to changes in the discount rate assumption

The following presents the Total OPEB Liability of the Company, as well as what the Company's Total OPEB Liability would be if it were calculated using a discount rate that is 1-percentage point lower (1.06%) or 1-percentage point higher (3.06%) than the current discount rate:

	1% Decrease 1.06%	Current 2.06%	1% Increase 3.06%
Total OPEB Liability	\$ 2,271,003	\$ 2,132,618	\$ 2,000,416

Sensitivity of the total OPEB liability to changes in the healthcare cost trend rates

The following presents the total OPEB liability of the Company, as well as what the Company's total OPEB liability would be if it were calculated using healthcare cost trend rates that are 1-percentage point lower or 1-percentage point higher than the current healthcare cost trend rates:

	1% Decrease	Current Trend Rates	1% Increase
Total OPEB Liability	\$ 1,935,353	\$ 2,132,618	\$ 2,362,313

OPEB liabilities, OPEB expense, and deferred outflows of resources and deferred inflows of resources related to other postemployment benefits

At December 31, 2022 and 2021 the Company reported a liability of \$2,132,618 and \$2,232,636, respectively. The net OPEB Liability is equal to the total OPEB liability minus the fiduciary net position. Since the Company operates the OPEB Plan on a pay-as-you-go basis the Fiduciary Net Position is \$0. The net OPEB liability was measured as of January 1, 2022 and 2021, and the total OPEB liability used to calculate the net OPEB liability was determined by an actuarial valuation as of January 1, 2022, and January 1, 2020 with update procedures used to roll forward the total OPEB liability to January 1, 2021, respectively.

ELMIRA WATER BOARD  
(An Enterprise Fund of the City of Elmira, New York)

NOTES TO FINANCIAL STATEMENTS, Cont'd

DECEMBER 31, 2022 AND 2021

NOTE F: POSTEMPLOYMENT HEALTHCARE BENEFITS, Cont'd

For the years ended December 31, 2022 and 2021 the Company recognized OPEB expense of \$217,595 and \$438,148, respectively. The calculation of the OPEB expense for the following measurement periods ending January 1, 2022 and 2021 is shown in the following table:

	Measurement period ending January 1,	
	2022	2021
Service Cost	\$ 91,675	\$ 83,773
Interest on the total OPEB Liability	47,270	60,268
Expensed portion of current-period difference between expected and actual experience in the total OPEB Liability	(15,661)	-
Expensed portion of current-period changes of assumptions	4,066	25,125
Recognition of beginning deferred outflows of resources as OPEB expense	111,041	289,778
Recognition of beginning deferred inflows of resources as OPEB expense	(20,796)	(20,796)
	\$ 217,595	\$ 438,148

For the years ended December 31, 2022 and 2021, the Company reported deferred outflows of resources and deferred inflows of resources related to OPEB from the following sources:

	December 31,			
	2022		2021	
	Deferred Outflows of Resources	Deferred Inflows of Resources	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ 6,189	\$ 51,526	\$ 47,023	\$ -
Changes of assumptions or other inputs	47,478	3,328	104,307	24,124
Company contributions subsequent to the measurement date	165,208	-	189,220	-
	\$ 218,875	\$ 54,854	\$ 340,550	\$ 24,124

ELMIRA WATER BOARD  
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NOTES TO FINANCIAL STATEMENTS, Cont'd

DECEMBER 31, 2022 AND 2021

NOTE F: POSTEMPLOYMENT HEALTHCARE BENEFITS, Cont'd

The amortization period for the beginning of the measurement period is 4.29 years for the average expected remaining service life of members. Amounts reported as deferred outflows of resources and deferred inflows of resources related to OPEB will be recognized in OPEB expense as follows:

<u>Year ended December 31,</u>	<u>Amount</u>
2023	\$ 20,089
2024	(6,318)
2025	(11,595)
2026	<u>(3,363)</u>
	<u>\$ (1,187)</u>

NOTE G: LEGAL CONTINGENCIES

The Company is a party to various legal actions arising in the ordinary course of business, the aggregate effect of which, in management's and legal counsel's opinion, would not be material to the financial condition of the Elmira Water Board.

**ELMIRA WATER BOARD**  
**(An Enterprise Fund of the City of Elmira, New York)**

**OTHER FINANCIAL INFORMATION**



ELMIRA WATER BOARD  
(An Enterprise Fund of the City of Elmira, New York)

SCHEDULE OF THE COMPANY'S PROPORTIONATE SHARE OF THE NET PENSION LIABILITY

	Year ended December 31,						
	2021	2020	2019	2018	2017	2016	2015
Company's proportion of the net pension liability of the City of Elmira, NY	48%	53%	53%	52%	43%	33%	34%
Company's proportionate share of the net pension (asset) liability	\$ (701,341)	\$ 9,111	\$ 2,357,035	\$ 634,396	\$ 278,322	\$ 1,386,640	\$ 299,059
Company's covered payroll	\$ 2,867,088	\$ 2,757,332	\$ 2,788,133	\$ 2,685,437	\$ 2,634,199	\$ 2,349,599	\$ 2,218,205
Company's proportionate share of the net pension liability as a percentage of its covered-employee payroll	-24.5%	0.3%	84.5%	23.6%	10.6%	59.0%	13.5%
Plan fiduciary net position as a percentage of the total pension liability	103.65%	99.95%	86.39%	96.27%	98.20%	90.68%	97.95%

Historical information:

10 years of historical information is not available, and will be added each year subsequent to the year of implementation until 10 years of historical data is present.

The amounts presented for each fiscal year were determined as of the System's measurement date.

**ELMIRA WATER BOARD**  
 (An Enterprise Fund of the City of Elmira, New York)

**SCHEDULE OF COMPANY CONTRIBUTIONS – PENSION**

	Year ended December 31,							
	2022	2021	2020	2019	2018	2017	2016	2015
Contractually required contribution	\$ 300,112	\$ 412,660	\$ 367,218	\$ 356,432	\$ 347,826	\$ 336,119	\$ 355,615	\$ 368,411
Contribution in relation to the contractually required contribution	<u>300,112</u>	<u>412,660</u>	<u>367,218</u>	<u>356,432</u>	<u>347,826</u>	<u>336,119</u>	<u>355,615</u>	<u>368,411</u>
Contribution deficiency (excess)	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
Company's covered-employee payroll	\$ 2,867,088	\$ 2,757,332	\$ 2,788,133	\$ 2,685,437	\$ 2,634,199	\$ 2,497,223	\$ 2,349,599	\$ 2,218,205
Contributions as a percentage of covered-employee payroll	10.5%	15.0%	13.2%	13.3%	13.2%	13.5%	15.1%	16.6%

Historical information:  
 10 years of historical information is not available, and will be added each year subsequent to the year of implementation until 10 years of historical data is present.

The amounts presented for each fiscal year were determined as of the fiscal year end.

**ELMIRA WATER BOARD**  
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**SCHEDULE OF CHANGES IN THE COMPANY'S TOTAL  
OTHER POSTEMPLOYMENT BENEFITS LIABILITY AND RELATED RATIOS**

	Year ended December 31,				
	2022	2021	2020	2019	2018
Service cost	\$ 91,675	\$ 83,773	\$ 81,362	\$ 94,241	\$ 50,018
Interest	47,270	60,268	85,878	76,955	48,233
Changes of benefit terms	-	-	-	-	(39,730)
Differences between expected and actual experience	(67,187)	-	94,599	-	295,460
Changes of assumptions or other inputs	17,444	80,652	56,546	(86,512)	714,138
Benefit payments	(189,220)	(215,715)	(215,872)	(212,724)	(89,829)
Net change in total OPEB liability	(100,018)	8,978	102,513	(128,040)	978,290
Total OPEB liability - beginning of year	2,232,636	2,223,658	2,121,145	2,249,185	1,270,895
Total OPEB liability - end of year	<u>\$ 2,132,618</u>	<u>\$ 2,232,636</u>	<u>\$ 2,223,658</u>	<u>\$ 2,121,145</u>	<u>\$ 2,249,185</u>
Company's covered-employee payroll	\$ 2,867,088	\$ 2,757,332	\$ 2,788,133	\$ 2,685,437	\$ 2,635,199
Total OPEB liability as a percentage of covered-employee payroll	74.4%	81.0%	79.8%	79.0%	85.4%

Notes to schedule:

Changes in assumptions:

Changes of assumptions and other inputs reflect the effects of changes in the discount rate each period. The discount rate in effect at the applicable year's measurement date is as follows:

2022 - 2.06%, 2021 - 2.12%, 2020 - 2.74%, 2019 - 4.10%, and 2018 - 3.44%.

Historical information:

10 years of historical information is not available, and will be added each year subsequent to the year of implementation until 10 years of historical data is present.



Elmira Water Board Organizational Structure

