

Springfield

Water and Sewer Commission

Springfield, Massachusetts



Annual Comprehensive Financial Report

For the Fiscal Year Ended June 30, 2021

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SPRINGFIELD WATER AND SEWER COMMISSION

Springfield, Massachusetts

Annual Comprehensive Financial Report
For the Year Ended June 30, 2021



COMMISSIONERS

Daniel Rodriguez, Chairman
Vanessa Otero
William Leonard

Joshua D. Schimmel
Executive Director

Anthony J. Basile
Comptroller

Domenic P. Pellegrino
Finance Director

Prepared by Financial Group

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INTRODUCTORY SECTION

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**SPRINGFIELD WATER
AND SEWER COMMISSION**

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October 28, 2021

Springfield Water and
Sewer Commission
PO Box 995
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To the Customers and Board of Commissioners of the
Springfield Water and Sewer Commission

It is our pleasure to submit the Springfield Water and Sewer Commission's Annual Comprehensive Financial Report for the year ending June 30, 2021. Responsibility for the accuracy of the data, and the completeness and fairness of the presentation, including all disclosures, rests with the Commission's management. To the best of our knowledge and belief, this report is accurate in all material respects and is reported in a manner designed to present fairly the financial position and results of Commission operations. Disclosures necessary to enable the reader to gain an understanding of the Commission's financial activities have been included.

The Commission was created by an Act of the Massachusetts Legislature that requires an annual audit by independent certified public accountants. The Commission's Board selected the independent audit firm of Melanson to perform an audit of the Commission's books for fiscal year ended June 30, 2021.

The Management's Discussion and Analysis (MD&A) follows the independent auditors' report and provides a narrative introduction, overview, and analysis to accompany the basic financial statements. This letter of transmittal is intended to complement the MD&A and should be read in conjunction with it.

The Commission is required to assess whether an annual Single Audit in conformity with the provisions of Title 2 U.S. Code of Federal Regulations Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance) needs to be performed. In accordance with Uniform Guidance, a Single Audit was required for fiscal year 2021 because the Commission's federal expenditures were above \$750,000.

ABOUT THE COMMISSION

The Commission was created by an Act of the Massachusetts Legislature adopted by the Springfield City Council in April 1996. The adoption of the Act merged the functions and responsibilities of the Springfield Municipal Water Department and the Regional and Local Wastewater Divisions of the City's Department of Public Works into one Commission. A three-member board, appointed by the Mayor and approved by the City Council, is the governing body of the Commission. The ownership and operation of the water and sewer system was transferred to the Commission in June 1996.

The Commission has authority to independently set its rates and charges. These rates and charges are set at a level and amount sufficient to meet the Commission's financial obligations including, but not limited to, operating expenses, debt service on all outstanding bonds, and any reserve requirements specified in bond resolutions.

WATER SYSTEM

History of Springfield's Water Supply

The Springfield water system dates back to 1848 when the Springfield Aqueduct Company was formed. In 1863, the City of Springfield began to investigate new water supplies. In 1872, the City purchased the Springfield Aqueduct Company and began to develop the Ludlow Reservoir by purchasing all the land surrounding the reservoir site. In November 1875, the 1.71-billion-gallon Ludlow Reservoir became the City's primary water supply.

In 1910 construction of the Borden Brook Reservoir (2.5 billion gallons) was completed and this became the City's primary supply. The Ludlow Reservoir continued to be the primary supply for Ludlow and a secondary supply for Springfield. Borden Brook Reservoir continued to serve as Springfield's primary supply until 1931, when Cobble Mountain Reservoir was constructed, and this 22.8-billion-gallon reservoir has been the City of Springfield's primary supply source ever since. Borden Brook Reservoir is still an active supply source and feeds into the Cobble Mountain Reservoir. In 1994 Cobble Mountain Reservoir became the primary water supply for the Town of Ludlow. The Ludlow Reservoir is maintained as an emergency supply source.

Treatment

Water flows from the Cobble Mountain Reservoir to the West Parish Water Filtration Plant in Westfield, where it is filtered and treated to protect public health. The filtration process removes particles and impurities from the water. Then, the pH of the water is adjusted, and corrosion inhibitors are added to protect home plumbing. Finally, chlorine is added to disinfect the water before it flows out into the distribution system for delivery to our customers.

More than 51,000 water quality tests are conducted annually to ensure that the water produced is safe. The Commission's State certified laboratory analyzes water samples daily. Private certified laboratories are also utilized to assure that the water meets or is better than all State and Federal standards and requirements.

Storage

After leaving the West Parish Water Filtration Plant, the water travels through three transmission mains to our three storage tanks located on Provin Mountain in Agawam. The three tanks have a total storage capacity of 43.7 million gallons.



Distribution

Water flows by gravity from the Provin Mountain storage tanks to the majority of the Springfield and Ludlow system. However, the Commission has several pump stations, which provide increased pressure to some higher elevation areas in the City and Ludlow during periods of high demand.

The Springfield Water and Sewer Commission is responsible for your drinking water from the source through treatment and storage to distribution to your tap. In addition to serving the residents of Springfield and Ludlow, the Commission also provides wholesale water to the communities of Agawam, East Longmeadow, and Longmeadow and provides partial service or peak service to Southwick, Westfield, and West Springfield. The Commission can also provide water on an emergency basis to Chicopee, Wilbraham, Westfield, and West Springfield.

POWER GENERATION

The Commission owns Cobble Mountain Hydro-Power Station which is located in the Town of Granville, Massachusetts. The Station utilizes stored static hydro-pressure energy at the Cobble Mountain Reservoir Dam for green power production while water is conveyed to the Commission's West Parish Water Filtration Plant. The generated power is transferred and sold to ISO New England electricity market. The Plant has a capacity of 33 Megawatt-hours power production through three turbine generators: two rated at 13.6 Megawatts and one at 5.7 Megawatts. The 5.7 Megawatts Unit is shut down and disassembled for rehabilitation needs and improvement studies. In fiscal year 2021, the plant output was 12,433 Megawatts.



The Commission controls and limits the amounts of water available for power generation to ensure safe-yield water storage under various seasonal conditions and drought scenarios.

The Commission is currently in a ten-year agreement with the City of Holyoke Gas & Electric Department (HG&E) to manage, operate and maintain (O&M) the Station, expiring June 30, 2026. The Commission has also entered into a separate ten-year parallel agreement with HG&E to provide marketing agency and facilitation of power sales into the ISO-New England electricity market.

HG&E is compensated for its O&M expenses which include routine maintenance work, and is reimbursed for major maintenance work approved by the Commission, and for support work on Capital Projects as assigned by the Commission. HG&E is also paid a flat monthly fee with a maximum annual cap for the marketing and facilitating of power sales. Historically, the Commission has received annual net income from the power station and anticipates continuing to receive net income during the ten-year term of these agreements.



The Power Plant generated enough green power in fiscal year 2021 to meet the average annual power supply needs of approximately 1,700 homes in Massachusetts.

SEWER SYSTEM

Wastewater Collection

The Springfield Water and Sewer Commission services approximately 37,500 sewer accounts. The sewer collection consists of 150 miles of combined sewer (sewer and stormwater pipe), 474 miles of combined and separated sewer pipe, 24 combined sewer overflow outfalls, 11,511 manholes, and 34 pumping stations. Wastewater is conveyed to the Springfield Regional Wastewater Treatment Facility (SRWTF) located on Bondi's Island off Route 5 in Agawam, MA.



The SRWTF treats wastewater from the households, businesses, and industries within Springfield and surrounding member communities, including Agawam, East Longmeadow, Longmeadow, Ludlow, Wilbraham, West Springfield, and a small section of Chicopee. The SRWTF is designed to treat up to 67 million gallons of wastewater per day. Currently, a daily average of 44 million gallons of wastewater is cleaned, treated, and returned to the Connecticut River. The SRWTF is the second largest treatment facility in New England.

The SRWTF is owned by the Commission and is currently operated and maintained under a twenty-year Service Agreement between the Commission and Suez Water Environmental Services Inc. (SUEZ) which began on October 1, 2020 with an additional five-year mutual option. Treatment consists of two major steps: primary treatment and secondary treatment. During the primary treatment stage, sand, grit, and

solids are removed from the untreated sewage. The secondary treatment phase uses bacteria to further break down the dissolved solids, which produces sludge. The treated wastewater is then separated from the sludge and cleaned and disinfected before being released into the Connecticut River in compliance with the facility's National Pollution Discharge Elimination System (NPDES) permit issued by the U.S.



EPA and MA DEP. SUEZ is responsible for the biological treatment, disinfection and chlorination of the wastewater that flows through the plant.

Effluent flow to the Connecticut River is tested and monitored daily at the facility's on-site State certified testing laboratory to ensure that required permit limitations are not exceeded and the water can be discharged safely to the Connecticut River without harming the environment. The solids, or sludge, resulting from the treatment process are trucked to Solid Waste Landfills for disposal.

Bondi's Island - The History Behind the Name



From his native Italy, Luigi Bondi came to Springfield with his wife and children in the late 1800's. With a successful venture in the produce business under his belt, he started acquiring land in and around Springfield. He purchased an Island (Bondi's Island) on the Connecticut River in 1889 for \$100. It was common practice in those days to measure real estate in approximations to local landmarks; unfortunately, landmarks change as time goes on so it is not known for certain where the original Bondi's Island lies. Speculation and local lore has the Island under the west end of the Memorial bridge. So why is the Springfield Regional Wastewater Treatment Facility (SRWTF) nicknamed "Bondi's Island"? Locals have said that Luigi Bondi also purchased land in West Springfield surrounded on three sides by water (the Connecticut and Agawam Rivers). These plots of land are guessed to be what was known as Big Island and Hermit Island. Hermit Island was also known to some as Little Island or Cambell's Island. He had peach trees on the island for his produce business and had plans to make a recreation area one day. As time went on, the course of the river may have changed, or branches may have been filled in or dried up and the two islands became one. This is the plot of land that Luigi was said to have purchased and is the current location of the SRWTF.

The first wastewater treatment plant was built in 1938-39 and at the time, was a state-of-the-art primary treatment plant that contributed greatly to the quality of the Connecticut and Chicopee rivers. However, it was not until 1960 that all the sewage generated in Springfield went to the treatment facility.

In 1968, the land northwest of the treatment plant started being used as a landfill, and by now more of the water being treated at the treatment plant was coming from surrounding communities. As a result of the 1972 Clean Water Act and increased demand being placed on the treatment plant, a new regional secondary wastewater treatment facility (the SRWTF) was put online in 1977.

Since 1988, three other waste management facilities have been established on Bondi's Island. This is a far cry from the recreational park Luigi Bondi had envisioned a century ago, but it is hoped he would advocate the use of his land as a center of environmental protection.

MANAGEMENT OBJECTIVES

It is the Commission's objective to provide a high quality, uninterrupted supply of water to our customers, to collect and treat wastewater, and return clean water to the environment.

While fulfilling our objectives the Commission strives to:

- Conserve and protect our reliable, high quality water supply for present and future generations,
- Meet or surpass public health standards, environmental standards, and support fire protection,
- Operate, maintain, improve, and manage our water and wastewater infrastructure in a cost-efficient manner,
- Manage finances to support Commission needs and maintain reasonable water and wastewater rates,
- Maintain a safe, and professional workforce, and
- Understand and respond to customer's expectations for service.

ORGANIZATION

A three-member board, appointed by the Mayor of the City of Springfield and approved by the City Council, governs the Commission. Decisions made by the Commissioners are implemented by the Executive Director and the staff. The following table lists the Commission Members:

<u>Office</u>	<u>Name</u>	<u>Method of Selection</u>	<u>Term Expiration</u>
Chairman	Daniel Rodriguez	Appointed by Mayor	June 30, 2023
Commissioner	Vanessa Otero	Appointed by Mayor	June 30, 2022
Commissioner	William E. Leonard	Appointed by Mayor	June 30, 2021

The primary mission of the Board is to ensure the sound economical and efficient operation and maintenance of the systems and to ensure the highest quality services to customers of the Commission. The Board of Commissioners is also responsible for setting clear financial and operational policy directives.

A full-time Executive Director appointed by the Board of Commissioners oversees the Commission's seven groups: Administration, Engineering, Water Operations, Field Services, Wastewater Operations, Financial, and the Information Technology groups.

The Administration group is responsible for executive management, strategic planning, public relations, labor relations, human resources, safety and security, and representing the Commission in all litigation matters and procurement.

The Engineering group is responsible for planning, designing, managing and providing contract compliance for the construction of the Commission's capital projects. The group also administers the contract for operation of the power generation plant. The group provides construction and commercial development inspection services. Asset management and building maintenance is supported by this group as well.

The Water Operations group is responsible for the management of all dams and reservoirs and surrounding watersheds, water treatment facilities, water transmission mains and easements, water storage facilities, and testing for compliance with water quality regulations.

The Field Services group is responsible for all water distribution pipes and appurtenances, pumping stations, valves and hydrants, routine flushing of lines and exercising of valves for sustained water quality, replacement of customer water services, meters and meter readings and for all sewer collection pipes and appurtenances, jetting of lines to maintain flows and other collection system functions.

The Wastewater Operations group is responsible for all industrial pre-treatment programs, fats, oils, and grease programs. This group is also responsible for oversight of operations at the Regional Wastewater Treatment Facility and the pumping stations and combined sewer overflows.

The financial planning and accounting responsibilities are divided between the Finance group and the Comptroller's group which based on function ensures proper internal controls and segregation of duties are established and maintained. Both groups combine to effectively operate and manage the Commission's finances. Rate setting, cash management, customer billing and collection and capital planning are the primary responsibilities of the Finance group. The Comptroller's primary focus is accounting, budget preparation, financial reporting and internal and external audits.

The Information Technology (IT) group performs many strategic roles within the Commission. IT maintains core systems that provide digital communication, accurate business planning, systematic management, real time monitoring, instant customer support and focuses on long term business growth. IT offers and maintains technologies such as a robust infrastructure, database management, Geographical Information Systems, systems integration and analytics along with maintaining all business tools employees use to perform their duties. This group also focuses on cybersecurity across all business platforms.

CUSTOMER BASE

The Service Area

The Commission serves a total population of approximately 250,000, or about 94% of the total population within the Commission's service area. Please see Table 11 for a breakdown by types of customers. The Commission's customer base includes residential population, businesses and industries, and various public, private and non-profit institutions in its respective service areas. Information regarding the Municipal Demographics for System Customers is set forth in the Tables found in the Statistical Section of this report.

Water System Customers

The Commission sells water at retail to the populations of Springfield and Ludlow based on metered usage. The Commission sells water based on metered usage to Solutia in accordance with a contract which commenced on December 14, 2018 and expires on June 30, 2023. Solutia is the largest single consumer of water provided by the Commission. The Commission also sells water to the communities of West Springfield and Westfield during peak demand periods based on metered usage.

The costs of operating the Commission's water supply and transmission systems are allocated to the following communities under wholesale contracts based on a formula which considers each community's consumption with respect to total water output. Five-year contracts with the communities of Agawam and Southwick commenced on July 1, 2019. The Town of Longmeadow and East Longmeadow contracts were negotiated in Fiscal Year 2020 to address changes in the contracts with respect to customers located in each other's community. The Town of East Longmeadow's contract was ratified, signed and will run until June 30, 2024. The Town of Longmeadow's contract continues to be negotiated with expectations that once agreed a new contract will be executed and run until June 30, 2024. All reservoirs, treatment and storage facilities, pump stations and water transmission mains, are owned by the Springfield Water and Sewer Commission. Each wholesale community owns and maintains the water distribution pipes within their borders. The Commission owns all distribution pipes in Springfield and Ludlow.

Sewer System Customers

The operating costs for the Springfield Regional Wastewater Treatment Plant are allocated to the following users under contracts based on a formula which considers each participant's contribution of Flow, Biochemical Oxygen Demand, and Total Suspended Solids. Five-year contracts with the communities of Agawam, East Longmeadow, Longmeadow, Ludlow, West Springfield and Wilbraham commenced on July 1, 2021. The Commission is still in negotiations with the Town of Longmeadow, with expectations that once agreed a new contract will be executed and run until June 30, 2026. A ten-year contract with the Commission's largest user, Solutia, commenced on February 9, 2015 that expires on June 30, 2025. Industrial user, Friendly's Ice Cream, dba Dean Foods, and the community of Chicopee also share about 1.3% of the annual plant operating costs under the same formula, as under the above contracts.

The share of operating costs attributable to the customers located in the City of Springfield, are billed directly to each account by the Commission as part of the local sewer rate established by the Commission. The Springfield Water and Sewer Commission owns the Springfield Regional Wastewater Treatment Plant, all Wastewater Pump Stations and the respective Collection/Interceptor Pipes, including associated wastewater facilities, within the boundaries of the City of Springfield. All other communities own and maintain the collection systems within their respective borders, and they are responsible for the conveyance pipes to the Regional Wastewater Treatment Plant.

ECONOMY

The City of Springfield is located in western Massachusetts along the bank of the Connecticut River. Springfield is centrally located with Boston 90 miles to the east, Hartford 30 miles south and New York City 150 miles southwest. Springfield is the hub of Western Massachusetts. The City is surrounded by its suburbs including Agawam, East Longmeadow, Longmeadow, Ludlow, West Springfield and Wilbraham.

Springfield is the third largest City in the Commonwealth of Massachusetts and home to 155,929 people behind the Cities of Boston and Worcester and is the fourth largest City in New England.

Springfield is the region's cultural and economic center. Springfield is home to several of the region's largest employers, including Massachusetts Mutual Life Insurance Company, Baystate Health, Trinity Health Care, Smith & Wesson, Big Y and MGM Springfield. Major cultural institutions include the Springfield Symphony, City Stage, the Mass Mutual Center, and the Quadrangle Museums.

Springfield is located in Hampden County which along with Hampshire and Franklin Counties is collectively known as the "Pioneer Valley".

Nine hospitals, and 100 clinics or related facilities make healthcare the largest private industry in Western Massachusetts and a leading economic driver for the region. Baystate Health, the parent organization of Baystate Medical Center, is a four campus, 800-bed teaching and research facility, as well as the western campus of Tufts University School of Medicine.

Multi-national banks, the Springfield-based operations of the MassMutual Financial Group and Liberty Mutual as well as a dense concentration of insurance giants, all contribute to the region's financial services.

Springfield is headquarters of the MassMutual Financial Group, an industry staple since 1851 that sits among the Fortune 100. A more recent addition to the financial services sector in Springfield is Liberty Mutual Insurance Group, the sixth largest personal and car insurance company in the United States. Liberty Mutual moved some of its operations into the Springfield Technology Park.

"The Insurance Capital of the World", Hartford Connecticut, is less than 30 minutes from downtown Springfield. Internationally known companies located there include Travelers, Aetna, The Hartford, ING and The Phoenix Companies, Inc.

Banking also plays a major role in the Pioneer Valley. Berkshire Bank, TD Bank, United Bank, Westfield Bank, People's United, Citizen's Bank and Florence Savings Bank are the largest of these institutions.

The region's economy is in transition. Manufacturing was once the mainstay of the region's economy, employing more than 29 percent of the workforce in 1980. Like most of the nation, the Pioneer Valley region is experiencing an increasing shift from manufacturing to service sector jobs. Examples of professions in the service sector include healthcare, education, and other industries that focus on customer-provider interaction. From 1990 to 2000, the service sector's share of total private sector jobs grew from 36 to 41 percent and as of 2011 the service sector comprised 54 percent of the private sector. The fastest growing industries were healthcare and social assistance, public administration, and utilities. In 2018 CRRC MA opened a newly constructed \$95 million manufacturing facility to produce rail cars for the MBTA Boston's Orange Line and Red Line.

The travel, tourism and hospitality industry plays a tremendous role in Massachusetts' Pioneer Valley. Tourism related employment in Western Massachusetts totals nearly 5,000.

The Pioneer Valley tourism industry is boosted by the region's famed attractions, including Six Flags New England, Dr. Seuss National Memorial Sculpture Garden, the Naismith Memorial Basketball Hall of Fame, Yankee Candle Village and the Eric Carle Museum of Picture Book Art. The Valley is also known for unique festivals and fairs including The Big E, Bright Nights at Forest Park, the Paradise City Arts Festival, Holyoke's St. Patrick's Day Parade, Springfield's Puerto Rican heritage parade, Stone Soul Picnic, and many other ethnic festivals.

In August 2018, MGM Springfield opened in downtown Springfield, a \$960 million resort casino that covers a 3 block, 14.5-acre area. The development includes a 250-room hotel, many shops, restaurants

and bars. It also has a bowling alley, outdoor pavilion area and a South End market. There is a 125,000 square foot casino floor filled with slot machines and gaming tables. Also, MGM is committed to bring high-end entertainment acts to the City of Springfield. The casino project has created approximately 2,500 jobs, and with this type of investment the City of Springfield is planning on the attraction to spur economic development to other parts of the downtown area.

The region offers higher education at many area colleges and universities. The University of Massachusetts, a leading national research university anchors a group of colleges in the region along with Smith, Mount Holyoke and Amherst College. There are eight area schools centered in the Springfield area. These include American International College, Bay Path University, Elms College, Holyoke Community College, Springfield College, Springfield Technical Community College, Western New England University, and Westfield State University.

Source: 1) Pioneer Valley Planning Council, Comprehensive Economic Development Strategy
2) Economic Development Council of Western Massachusetts

Coronavirus (COVID-19)

COVID-19 is a new respiratory disease caused by a novel coronavirus that has not previously been seen in humans. On March 10, 2020 the Governor of the Commonwealth of Massachusetts declared a state of emergency to support the Commonwealth's response to the outbreak of the virus. On March 11, 2020 the World Health Organization declared COVID-19 a pandemic.

On March 15, 2020, the Governor announced emergency actions to help address the spread of the virus. Following the development and implementation of COVID-19 vaccines for the public and the adoption and implementation of a four phased reopening plan by the Commonwealth, on May 29, 2021 all business in the Commonwealth were permitted to reopen and to operate at full capacity, with some continuing limitations on public and private transportation and those facilities serving vulnerable populations.

On the March 16, 2020, the Springfield Water and Sewer Commission closed its offices and operations facilities to the public. At that time, Commission employees were reporting to work or working from home under the discretion of management. On or about June 1, 2021 the majority of Commission employees returned to reporting to work, however the Commission offices and operations facilities continue to limit access to the public. The Commission continues to provide and fully expects to maintain all essential functions and services. 100% of Commission employees are reporting to in person work at this time.

COVID-19 and the resulting continuing actions by national, state, and local governments is alternating the behavior of business and people in a manner that will continue to have negative impacts on global and local economies. The Commission continues to monitor year over year trends in revenues on a daily basis to assess the effects of COVID-19, and the resultant economic effects, on collections of water and sewer charges and other revenues. The Board of Commissioners has, as of February 1, 2021, ended the temporary suspension of late fees on overdue balances. And as of July 6, 2021 ended the temporary suspension of shutoffs and final demand/notice procedures for non-payment. The Commission continues to provide payment arrangements for all customers for outstanding water/sewer charges and is working with a local non-profit agency to provide access to tenants and landlords to available governmental programs for payment of water/sewer charges.

The Commission is required to file each year with EMMA the Commission's Annual Comprehensive Financial Report (1) the filing is being made merely to comply with contractual commitments, not to provide all information material to an investment in the linked securities, and does not purport to provide all such information, (2) COVID-19 is expected to adversely affect the issuer's future financial

performance to an extent that could be material, and (3) consequently, the information set forth in the filing should not be relied upon as indicative of future financial performance.

CAPITAL IMPROVEMENT PROGRAM

Capital Improvement Program supports the Commission’s mission to provide an uninterrupted, high quality supply of water to our customers, to collect and treat wastewater, and return clean water to the environment. Capital Projects provide a means to sustain service to our customers by economically rehabilitating or replacing infrastructure, improving efficiency of support systems and meeting regulatory requirements.

In addition to ongoing asset replacement programs including water distribution system valves, fire hydrants, pipes, operating equipment, and meters, the following significant capital improvements are being undertaken to improve infrastructure sustainability and meet regulatory requirements.



Water Infrastructure Finance and Innovation Act (WIFIA)



(From left to right) Executive Director Josh Schimmel, Acting Regional Administrator Deborah Szaro (EPA Region 1), Congressman Richard Neal (MA-1), EPA Assistant Administrator for Water Radhika Fox, Springfield Mayor Domenic J. Sarno, Commissioner Vanessa Otero (SWSC), MA DEP Commissioner Martin Suuberg, Commissioner Daniel Rodriguez (SWSC), Commissioner William Leonard (SWSC), and Agawam Mayor William Sapelli appear at a funding announcement at the site of the Connecticut River Crossing Project on Bondi’s Island.

In August 2021 the Commission finalized a \$250 million WIFIA loan to support a commitment of more than \$500 million to infrastructure improvements over the next six years. Following a thorough financial analysis, it was determined that the innovative structuring of the WIFIA program provides the Commission the ability to undertake a more aggressive implementation schedule for much needed

investment while providing rate stability that could not be achieved through any other funding mechanisms.

The strategic program of comprehensive infrastructure investment will accelerate critical projects and produce beneficial outcomes for the region while preserving a sustainable and affordable rate structure.

The Commission's unique approach to funding the acceleration of a portfolio of prioritized projects not only delivers projects quicker, it reduces the risk and consequences of infrastructure failure which includes loss of service and increased repair costs. The program also will deliver quicker beneficial environmental outcomes and regulatory compliance than would have been achieved with other funding mechanisms. Utilization of the WIFIA program provides a pathway to responsible, sustainable, and much needed investment.

Water

- The planning for the construction of improvements to the West Parish Filters Water Treatment Plant (WPF) continued. As part of the process, the Commission contracted with AECOM for the construction and operation of a pilot treatment plant to evaluate the effectiveness of various unit processes. These included dissolved air flotation (DAF) clarification, pre-oxidation, and enhanced filtration for the removal of natural organic matter that can lead to the production of disinfection by-products. The study was completed and the results were used to develop water treatment design criteria for the proposed new processes.
- Following completion of the pilot study, facilities planning for long-term improvements to the WPF was initiated. These capital improvements include projects to improve the reliability of the raw water conveyance systems and an upgrade of the existing water treatment processes to improve organic matter removal. The future water treatment processes will include coagulation, flocculation, DAF, rapid sand filtration, disinfection, and corrosion control, as well as treatment plant residuals management systems for the collection and treatment of solids captured by the treatment processes. The facilities planning is ongoing and is expected to be completed by the end of fiscal year 2022.
- Improvements to the Cobble Reservoir low level outlet Diversion gates were completed in 2021. The improvements to the discharge piping and outlet tunnel will allow the low-level outlets to be used as a fully redundant raw water supply year-round without icing.
- Evaluations and preliminary design were completed for the approximately 2-mile long 42-inch diameter Raw Water Conveyance (RWC) pipe and control valve system. The future improvements are necessary to return the pipe system to service as a raw water supply to the WPF.
- Indicative preliminary design was completed for the proposed Clearwell and Backwash Pump Station. The procurement of the Design Build (DB) team for construction of the Clearwell and Backwash Pump Station was completed, and the DB process began in fiscal year 2021. Construction of the new facilities is anticipated to progress through fiscal years 2022 and 2023.
- Additional current fiscal year Water improvement projects include:
 - Completion of the construction of replacement Bridges #1 and #2 at the WPF site.
 - Installation of variable frequency drives for plant process water.
 - Installation of filter valve actuators and water quality monitoring turbidimeters.
 - Purchase of land for water supply protection.

- Improvements to the controls for the 72-inch raw water inlet control valve were initiated, including the installation of a new steel support beam for a hoist. Procurement and installation of a hoisting system is anticipated in fiscal year 2022.
- Improvements to the flow control valves for slow sand filters were initiated.
- At the Provin Mountain water storage facility, current fiscal year projects included completing the construction of a new cover and drainage system for Tank 2, the permanent structural isolation of Tank 1 for future demolition, and modifications to the yard transmission main piping. Plans are being prepared for the long-term structural monitoring of Provin Tank 1. The maintenance and cleaning of Provin Tanks 3 and 4, maintenance and evaluation of tank valves and access structures, and replacement of two primary effluent flow meters were also completed in fiscal year 2021.
- Water Main Replacement in conjunction with the 2019-21 and 2020-22 infrastructure projects was initiated, including replacement of approximately 3,710 linear feet of water main primarily along Massachusetts Avenue and Narragansett Street. Watermain replacement along Massachusetts Avenue is expected to be completed in fiscal year 2022.
- Development of design documents in various stages for water main projects including 1,033 linear feet of water main on Liberty Street, 3,000 linear feet of watermain replacement at Saint James Avenue as part of a Mass DOT project, 7,245 linear feet of water main replacement at Sumner Avenue near Dickenson Street and Belmont Avenue “the X” as part of a Mass DOT project, and 4,653 linear feet of water main replacement on Westford Circle, Dover Street, and Wilbraham Road. These projects are anticipated to proceed to construction in fiscal year 2022.
- Water distribution system Asset Management Plan was developed and identifies and prioritizes water distribution piping replacement projects over the next 20 years. The plan is being used as part of the overall integrated master planning by the Commission.
- Installation of a new SCADA instrumentation systems for the booster pump stations in Ludlow and Springfield were completed to allow for remote monitoring of pump station functionality and water pressure in real time, which in turn allows for a more rapid response to mechanical and system problems that can occur periodically.
- Evaluation of the residuals accumulation in the WPF Upper and Lower Lagoons and alternatives for removing and disposing of the accumulating residuals was completed.
- Chemical cleaning of WPF Rapid Sand Filters #2-6 was completed to improve the performance of these filters.

Wastewater

- Annual comprehensive sewer collection system cleaning, condition assessment and system mapping.
- Continued construction of the York Street Pump Station and Connecticut River Crossing project.
- Preliminary design of the Locust Transfer Project interceptor sewer upgrade was completed.
- Closed out fiscal year 2020 sewer rehabilitation work including work along Burghardt Street.
- Completed fiscal year 2021 sewer infrastructure improvements, which included installation of new access structures to facilitate future sewer main lining and rehabilitation of existing sewer manholes at Fort Pleasant Avenue near Belmont Avenue, and the rehabilitation of approximately 4,700 feet of the Mill River Valley Intercepting Sewer and the associated manhole structures.

- Upgrade aeration system controls at the Springfield Regional Wastewater Treatment Plant with state-of-the-art nitrogen monitoring equipment and real-time process control capabilities.
- Completed design of sewer infrastructure improvements including repairs within Spring Street and the Holcomb Road siphon. The project will be bid and constructed in fiscal year 2022.
- Design and construction of annual sewer infrastructure improvements.

Power Generation

- Design of replacement power transmission poles (637 Line) is complete. Plans to procure all new poles and installation are anticipated in fiscal year 2022.
- Completion of the construction project for the replacement of the operating governors, servomotors and electrical upgrades for Units #1 and #3.
- Dismantling of Generator Unit #2; and the planning and conceptual design of a bypass system in its place was conducted.
- Initiated inspections and on-site repairs to Unit #1 and Unit #3 to allow for its continued use into the near future.
- Evaluated the use of a permanent engine power generator at the Cobble Reservoir Broome Gate at the inlet to the power tunnel.
- Initiated the design for the rehabilitation or replacement of the cooling water and storm water drain line from the power plant.
- Installed a temporary load bank adequate in size to accommodate one of the two large units operating at a reduced output but enough to release adequate water flows to the Intake Reservoir. This measure was temporary during the construction of the Diversion Gates improvements.

System-Wide Support

- Replace heating, ventilation and air conditioning (HVAC) control system at the Operations Center and other building and security improvements.
- Continued support of the Commission's Fleet and Rolling Stock Equipment replacement programs.
- Complete projects delayed by COVID-19.
- Replace end of life Cisco network switches and systems so that they are supported by manufacturer and can be updated to protect against exploit and vulnerabilities.
- Implement a Commission-wide Wi-Fi network, assuming COVID-19 protocols do not interfere with project again.
- Multi-factor authentication on remote access applications and services.
- Complete rebuild the SCADA datacenter servers, storage, and network at 2 locations for system fault tolerance and high availability.
- Deploy cyber security solution within the SCADA network to protect systems from potential threats to operations.

- Development of a facilities master plan, facilities security improvements as well as short- and long-term improvements to Commission properties.
- Produce a video documentary of the Springfield Water and Sewer Commission to be used as an educational tool and historical record.
- Acquire strategic parcels of land to support the facilities master plan.

Three sources fund the Commission’s Capital Improvement Program as indicated in Table I, Revenues and Reserves and two sources of bonds. Bonding, which will fund 90% of the three-year Capital plan includes Federal Water Infrastructure Financing (WIFIA) loans and State Revolving Fund (SRF) loans. The Commission will utilize WIFIA loans to finance 76% of the bonded projects and 24% of the bonded projects will be financed with SRF loans. Projects typically funded through bonds are large scale projects over \$1 million.

Table I

**2022-2024 Capital Improvement Program
Funding Sources**

Funding Source	2022	2023	2024
Revenues and Reserves	\$11,776,270	\$12,119,875	\$8,863,909
Bonds WIFIA	\$229,134,724	\$0	\$0
Bonds SRF	\$57,382,031	\$0	\$14,004,388
Grand Total	\$298,293,025	\$12,119,875	\$22,868,297

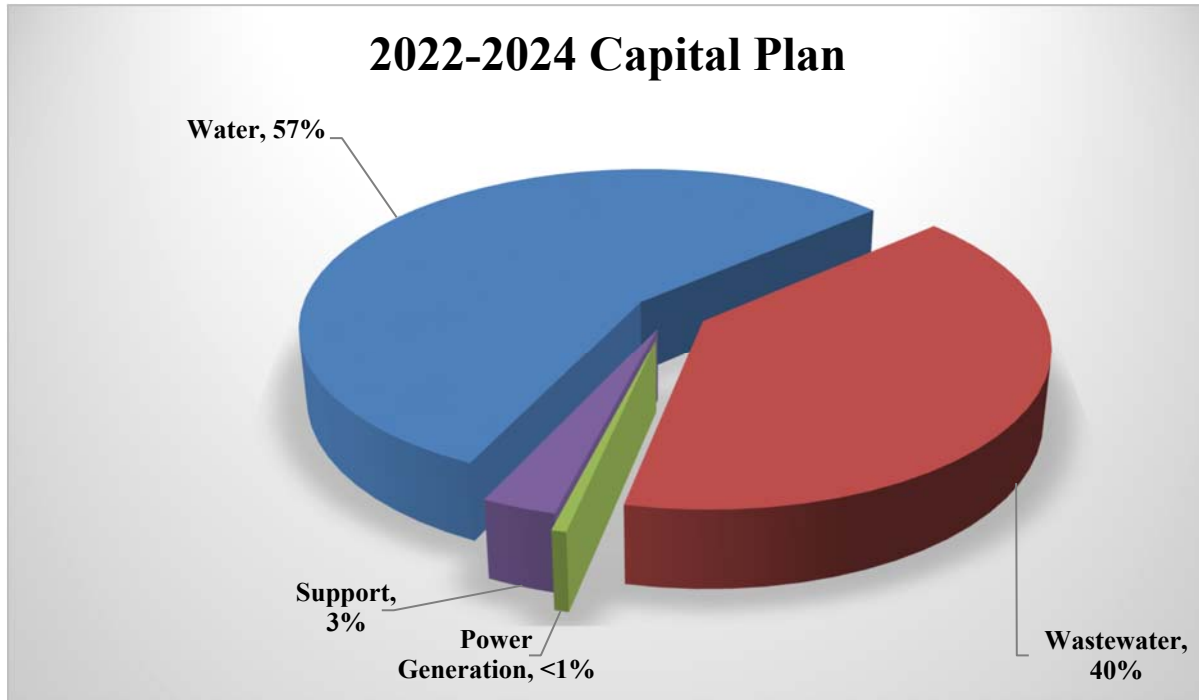
Table II

**2022-2024 Capital Improvement Program
Funding of Activity Areas**

Activity Area	2022	2023	2024
Water	\$179,291,669	\$4,870,000	\$4,540,000
Wastewater	\$111,271,356	\$4,876,125	\$16,470,297
Power Generation	\$355,000	\$1,123,750	\$508,000
Support	\$7,375,000	\$1,250,000	\$1,350,000
Total	\$298,293,025	\$12,119,875	\$22,868,297

Revenues and reserves are generated from wholesale and retail customer revenues, power generation revenues, grants and miscellaneous collected fees. Revenues and reserves typically fund projects less than \$1 million, including planning and design, ongoing asset replacement projects such as fire hydrants, pipe replacement, meter replacement and the replacement of operating equipment.

Over the next three years, capital expenditures are expected to fund 57% Water improvements, 40% Wastewater improvements, <1% Power Generation projects and 3% Support projects.



FINANCIAL INFORMATION

Administrative Controls

Internal controls are procedures designed to protect assets from loss, theft, or misuse, to check the accuracy of accounting data, to promote operational efficiency, to facilitate the preparation of financial statements, to satisfy other reporting requirements, and to encourage compliance with managerial policies.

The Commission is responsible for establishing a system of internal controls that provide reasonable assurance that these objectives are met. The concept of reasonable assurance stipulates the cost of a control should not exceed the benefits likely to be derived and that the valuation of cost and benefits requires estimates and judgments by management.

Federal and State financial assistance programs require recipients to comply with a number of laws and regulations. Administrative controls are procedures designed to ensure compliance with the requirements of the programs under which it receives financial assistance.

As with other internal controls, this system is subject to periodic review and evaluation by management or by the Commission's independent auditors.

Long-Term Financial Planning

The Springfield Water and Sewer Commission was established under Massachusetts General Laws Chapter 40N. The Commission has the responsibility for the operation and maintenance of the water supply, transmission and distribution systems as well as wastewater collection and treatment which serves the City of Springfield, Town of Ludlow and surrounding communities. In compliance with the General Bond Resolution the Commission approved its Capital Expenditure program totaling \$333,281,197 for the three-year period 2022-2024. Expenditures are divided in four categories: Water Projects total \$188,701,669, Wastewater Projects total \$132,617,778, Power Generation Projects total \$1,986,750 and other Support Projects total \$9,975,000.

Funding approval for the Fiscal Year 2022 Capital Projects total \$298,293,025. The spending plan is as follows: Water Projects total \$179,291,669 (60%), Wastewater Projects total \$111,271,356 (37%), Power Generation Projects total \$355,000 (1%), and other Support Projects total \$7,375,000 (2%).

The various infrastructure capital projects scheduled in fiscal year 2022 include:

Water

- Facilities planning and design of the West Parish Filters Water Treatment Plant (WPF) improvements project. The project includes the design of a new 80-mgd treatment facility to replace the aging slow sand and direct filtration plant. The new facility will include coagulation, flocculation, DAF clarification, filtration, and new supporting facilities including piping, chemical feed, and residuals handling. The new facility will also include new office and laboratory space.
- Various facility improvement projects at the WPF campus, including the construction of a new coagulant chemical bulk storage and feed system, chlorine storage system improvements, replacement of a 24-inch slow sand filter flow control valve, new hoisting system for a 72-inch control valve actuator and a new SCADA data center for control of the filter operations.
- Design/build process for a new 0.5 million-gallon Clearwell and Backwash Pumping Station at WPF.
- Final design for the rehabilitation and replacement of the 2-mile long 42-inch Raw Water Conveyance Pipeline and control valve system for primary water supply to WPF.
- Design for an onsite in-line conduit 2.0 Mega-Watt hydropower generator system, energy dissipation valves and an equalization tank for WPF.
- Phase 1 inspections of the Commission owned high hazard dams.
- Various assessments and improvements throughout the watersheds including bridge assessments, culvert and slope repairs, and woody vegetation control.
- Implementation of a structural monitoring program at Provin Mountain Storage Facility Tank 1.
- Design and construction of various water main projects including completion of a water main replacement project along Massachusetts Avenue, 1,033 linear feet of water main on Liberty Street, 3,000 linear feet of water main replacement at Saint James Avenue as part of a Mass DOT project, 7,245 linear feet of water main replacement at Sumner Avenue near Dickenson Street and Belmont Avenue “the X” as part of a Mass DOT project, and 4,653 linear feet of water main replacement on Westford Circle, Dover Street, and Wilbraham Road.
- Selection and design of additional water main replacement projects. Historically, the Commission replaces or rehabilitates over a mile water distribution pipe and sewer main per year.

Wastewater

- The ongoing construction of the York Street Pumping Station and Connecticut River sewer crossing and CSO project.
- Design of the Locust Transfer Project interceptor sewer upgrade project.
- Preliminary design for a new grit removal system at the wastewater treatment plant.
- Construction of sewer infrastructure improvements including repairs within Spring Street and the Holcomb Road siphon.
- Final design and construction for sanitary sewer improvements at Sunrise Terrace, South Branch Park Easement, St. Michaels Church, Pondview Drive, South Shore Drive, and Fort Pleasant Avenue.
- Selection and design of annual sewer infrastructure improvements. Historically, the Commission replaces or rehabilitates over a mile water distribution pipe and sewer main per year.
- Annual cleaning and assessment of the sewer collection system.

Power Generation

- Procurement and installation of new power transmission poles (637 Line) for power transmission at the Cobble Mountain Hydropower Station (CMHS).
- Expansion of emergency power supply from the CMHS to the Valve House.
- Design and construction of the rehabilitation/replacement of the cooling water and storm water drain line at the CMHS.
- Inspection and design of repairs to the CMHS penstocks and evaluation of bypass alternatives for Penstock No. 2.

Certificate of Achievement for Excellence in Financial Reporting

The Commission was awarded the Government Finance Officers Association (GFOA) Certificate of Achievement for Excellence in Financial Reporting for its Annual Comprehensive Financial Report for the fiscal year ended June 30, 2020. This was the eighth consecutive year that the Commission has achieved this prestigious award. In order to be awarded a Certificate of Achievement, the Commission had to publish an easily readable and efficiently organized Annual Comprehensive Financial Report that satisfied both generally accepted accounting principles and applicable program requirements.


A Certificate of Achievement is valid for a period of one year only. We believe that our current Annual Comprehensive Financial Report continues to meet the Certificate of Achievement Program's requirements, and we are submitting it to the GFOA to determine its eligibility for award.

Acknowledgements

We wish to express our appreciation to the Financial Group and the Administration's senior staff for compiling the information necessary to complete the Annual Comprehensive Financial Report.

We also give special recognition to the Board of Water and Sewer Commissioners for their continuous support to strive for and maintain the highest standards in the management of the Springfield Water and Sewer Commission finances.

Sincerely,

A handwritten signature in blue ink, appearing to read "Joshua D. Schimmel". The signature is fluid and cursive, with a large loop at the end.

Joshua D. Schimmel
Executive Director



Government Finance Officers Association

Certificate of
Achievement for
Excellence in
Financial
Reporting

Presented to

**Springfield Water and Sewer Commission
Massachusetts**

For its Comprehensive Annual
Financial Report
For the Fiscal Year Ended

June 30, 2020

Christopher P. Morill

Executive Director/CEO

SPRINGFIELD WATER AND SEWER COMMISSION

Commissioners

Daniel Rodriguez, Chairman

Vanessa Otero

William E. Leonard

Senior Management

Joshua D. Schimmel, Executive Director

Darlene Buttrick, Director of Engineering

Robert A. Stoops, P.E. Chief Engineer

Anthony J. Basile, Comptroller

Domenic P. Pellegrino, Finance Director/Procurement Officer

Daniel J. DiRienzo, Field Services Director

William D. Fuqua, Wastewater Operations Director

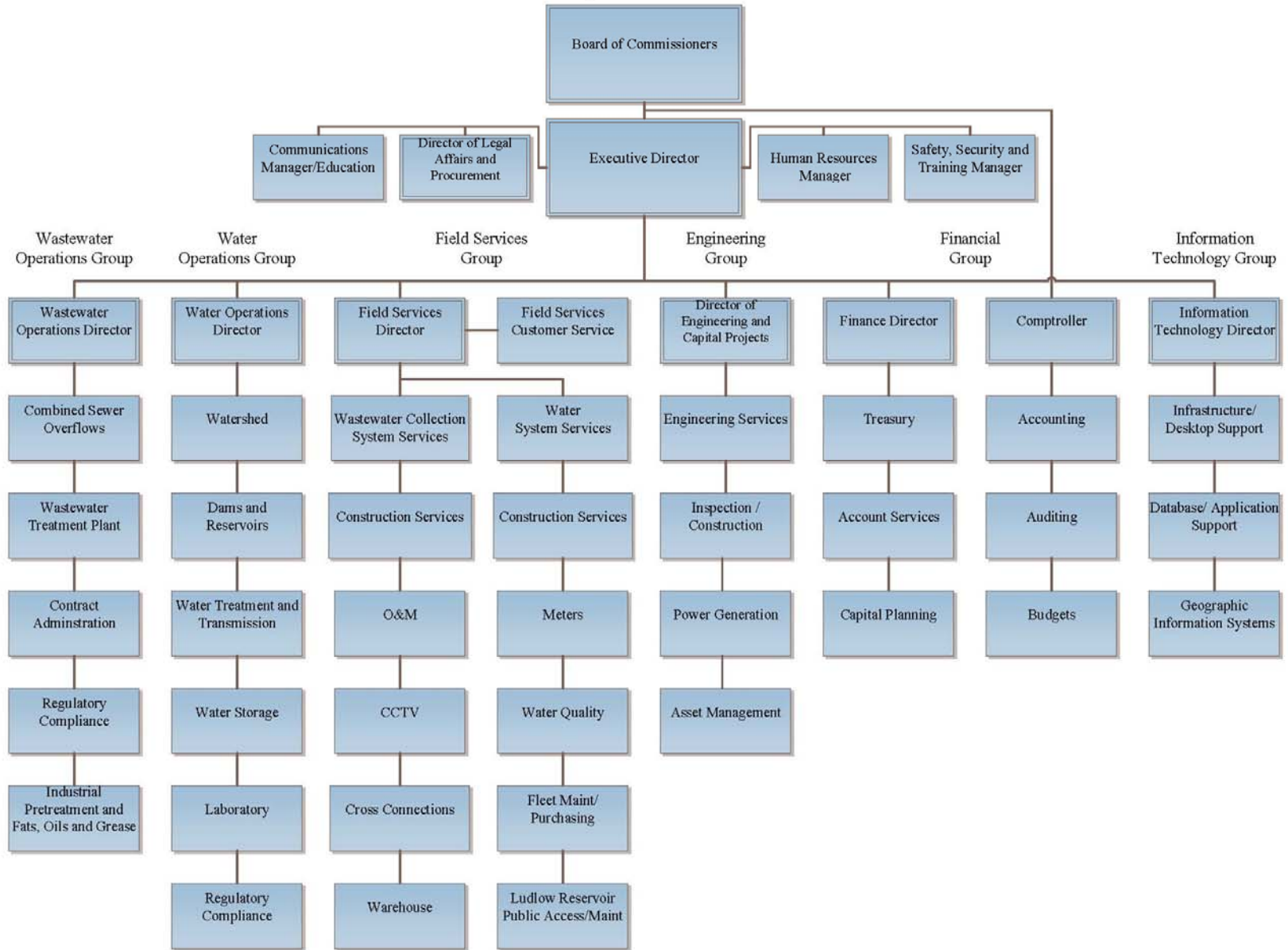
James M. Richardson, Information Technology Director

Susan Tower, Laboratory and Regulatory Manager

Jaimye Bartak, Communications Manager

Springfield Water and Sewer Commission

Organization Chart



FINANCIAL SECTION

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INDEPENDENT AUDITORS' REPORT

To the Commissioners
Springfield Water and Sewer Commission
Springfield, Massachusetts

Report on the Financial Statements

We have audited the accompanying financial statements of the business-type activities and the aggregate remaining fund information of the Springfield Water and Sewer Commission, as of and for the year ended June 30, 2021 and the related notes to the financial statements, which collectively comprise the Springfield Water and Sewer Commission's basic financial statements as listed in the Table of Contents.

Management's Responsibility for the Financial Statements

The Springfield Water and Sewer Commission's management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes 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.

Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements 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 entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Merrimack, New Hampshire
Andover, Massachusetts
Greenfield, Massachusetts
Ellsworth, Maine



Opinions

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the business-type activities and the aggregate remaining fund information of the Springfield Water and Sewer Commission, as of June 30, 2021, and the respective changes in financial position and cash flows for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that Management's Discussion and Analysis and certain Pension and OPEB schedules be presented to supplement the basic financial statements. Such information, 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 evidence sufficient to express an opinion or provide any assurance.

Other Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the Springfield Water and Sewer Commission's basic financial statements. The Schedule of Operating Expenses: Budget and Actual 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 financial statements. The information has been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the information is fairly stated in all material respects in relation to the financial statements as a whole.

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the Springfield Water and Sewer Commission's basic financial statements. The introductory and statistical sections are presented for purposes of additional analysis and are not a required part of the basic financial statements. Such information has not been subjected to the auditing procedures applied in the audit of the basic financial statements and, accordingly, we do not express an opinion or provide any assurance on it.



Other Reporting Required by *Government Auditing Standards*

In accordance with *Government Auditing Standards*, we have also issued our report dated October 28, 2021, on our consideration of the Commission's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Commission's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering Commission's internal control over financial reporting and compliance.

A handwritten signature in black ink that reads "Melanson".

Greenfield, Massachusetts
October 28, 2021



MANAGEMENT'S DISCUSSION AND ANALYSIS

As management of the Springfield Water and Sewer Commission (the Commission), we offer readers this narrative overview and analysis of the financial activities of the Springfield Water and Sewer Commission for the fiscal year ended June 30, 2021.

Overview of the Financial Statements

This discussion and analysis is intended to serve as an introduction to the basic financial statements.

The basic financial statements include (1) the Statement of Net Position, (2) the Statement of Revenues, Expenses and Changes in Fund Net Position, (3) the Statement of Cash Flows, (4) the Statement of Fiduciary Net Position, (5) the Statement of Changes in Fiduciary Net Position and (6) Notes to the Financial Statements. This report also contains required and other supplementary information in addition to the basic financial statements themselves.

The Statement of Net Position is designed to indicate our financial position as of a specific point in time. At the close of the current fiscal year, the total assets and deferred outflows exceeded liabilities and deferred inflows by \$143,357,414, (i.e., net position). Our net position is comprised of \$181,781,706 invested in capital assets, \$62,948,144 restricted for other purposes, namely restricted cash and inventory, and a deficit of \$(101,372,436) in unrestricted.

The Statement of Revenues, Expenses and Changes in Fund Net Position summarizes our operating results. As discussed in more detail below, our change in fund net position for the year ended June 30, 2021 was a change of \$12,398,980 in comparison to the previous year fund net position.

The Statement of Cash Flows provides information about the cash receipts and cash payments during the accounting period. It also provides information about the investing and financing activities for the same period.

The Statement of Fiduciary Net Position and Statement of Changes in Fiduciary Net Position account for resources held for the benefit of parties outside the Commission.

The Notes to the Financial Statements provide additional information that is essential to a full understanding of the data provided in the financial statements.

In addition to the basic financial statements and accompanying notes, this report also presents certain required supplementary information which is required to be disclosed by accounting principles generally accepted in the United States of America, and other supplementary information.

Summary of Net Position

	<u>2021</u>	<u>2020</u>
Current assets	\$ 213,556,589	\$ 216,067,645
Noncurrent assets	3,253,779	2,523,481
Capital assets	<u>405,398,449</u>	<u>376,413,115</u>
Total Assets	622,208,817	595,004,241
Deferred Outflows of Resources	105,775,469	107,098,137
Current liabilities	101,571,327	141,359,600
Noncurrent liabilities	<u>320,057,192</u>	<u>281,425,830</u>
Total Liabilities	421,628,519	422,785,430
Deferred Inflows of Resources	162,998,353	148,358,514
Net investment in capital assets	181,781,706	159,325,678
Restricted	62,948,144	59,930,406
Unrestricted	<u>(101,372,436)</u>	<u>(88,297,650)</u>
Total Net Position	<u>\$ 143,357,414</u>	<u>\$ 130,958,434</u>
	<u>2021</u>	<u>2020</u>
Operating Revenues		
Water and sewer usage	\$ 90,076,439	\$ 80,720,589
Other	<u>470,735</u>	<u>343,197</u>
Total Operating Revenues	90,547,174	81,063,786
Operating Expenses		
Salaries and wages	13,793,770	14,552,351
Employee benefits	10,632,203	11,136,631
Operations	26,238,699	24,768,918
Intergovernmental	626,879	642,225
Capital outlay	2,066,377	2,095,482
Depreciation and amortization	9,872,396	9,796,272
Other	<u>561,908</u>	<u>651,906</u>
Total Operating Expenses	<u>63,792,232</u>	<u>63,643,785</u>
Operating Income	26,754,942	17,420,001
Nonoperating Revenues (Expenses)		
Interest income	144,676	2,155,814
Interest expense	(5,575,113)	(5,310,745)
Grant reimbursement revenue	6,447,059	896,618
Excess revenues used to fund deferrals	<u>(15,372,584)</u>	<u>(20,415,649)</u>
Change in Net Position	12,398,980	(5,253,961)
Net Position, Beginning of Year	<u>130,958,434</u>	<u>136,212,395</u>
Net Position, End of Year	<u>\$ 143,357,414</u>	<u>\$ 130,958,434</u>

Financial Highlights

The Commission ended the year with operating income of approximately \$26.8 million. The following paragraphs give an overview of the year's activities.

It has been the practice of the Commission to establish its rates and charges for water and wastewater services at levels sufficient to produce revenues adequate to defray all operation and maintenance expenses, debt service and reserve deposits projected by the Commission's Consulting Engineers and to maintain net revenues available for debt service in excess of the coverage requirements mandated by the General Bond Resolution. Until fiscal year 2010, the Commission had historically adjusted its rates and charges for water and wastewater services on a basis which stabilized rates and charges over a multi-year period. Beginning in fiscal year 2011, the Commission has adopted single-year rate schedules to more closely match revenues to expenditures.

The COVID-19 outbreak in the United States (and across the globe) has resulted in economic uncertainties. The disruption is expected to be temporary, but there is considerable uncertainty around the duration and scope. The extent of the impact of COVID-19 on our operational and financial performance will depend on certain developments, including the duration and spread of the outbreak, impact on our employees, and vendors, all of which are uncertain and cannot be predicted. At this point, the extent to which COVID-19 may impact our financial condition or results of operations is uncertain.

The Commission is required to file each year with EMMA the Commission's Annual Comprehensive Financial Report (1) the filing is being made merely to comply with contractual commitments, not to provide all information material to an investment in the linked securities, and does not purport to provide all such information, (2) COVID-19 is expected to adversely affect the issuer's future financial performance to an extent that could be material, and (3) consequently, the information set forth in the filing should not be relied upon as indicative of future financial performance.

In fiscal year 2021, there was an increase in collection efforts and an increase in rates; also, overall usage was higher than anticipated. As a result, wastewater charges revenue and fees were approximately \$55,000 higher than budget. Wholesale water charges and fees were higher than budget by approximately \$2.6 million. Power generation revenues were less than estimates by approximately \$223,000. These and other factors resulted in total operating revenue of approximately \$90.5 million in fiscal year 2021, approximately \$2 million more than budget, and \$9.5 million more than the prior year.

Operating expenses were less than budget by approximately \$5.8 million, primarily as a result of conservative budgeting for general operational expenses and, in some cases, reduced expenditures as a result of the COVID-19 outbreak. There were also vacant positions and less overtime needed than anticipated.

In fiscal year 2011, we implemented FASC 980, *Accounting for the Effects of Certain Types of Regulation*, which essentially adjusts for differences between how revenue / rates are budgeted and how they are accounted for on a Generally Accepted Accounting Principles (GAAP) basis. In the Commission's case, revenue intended to fund capital asset acquisitions is set aside (deferred) and is recognized equal to the annual depreciation expense on those assets; depreciation expense on assets funded in other ways (such as through bonds) is removed from the income statement because those costs are not factored into the budget process; conversely, because principal debt repayment costs are funded through the budget, those costs are reflected in the income statement as a reduction to net position. The net effect of these adjustments is reported under the line "Excess revenues used to fund deferrals" on the Statement of Revenues, Expenses and Changes in Fund Net Position. This was a decrease of \$(15,372,584) for fiscal year 2021.

As a result of the key elements described above, the activities for the year resulted in a change in net position of \$12,398,980.

Capital Assets and Debt Administration

Capital Assets

Total investment in capital assets at year-end amounted to \$405,398,449 (net of accumulated depreciation). This investment in capital assets includes land, buildings and improvements, furniture and fixtures, vehicles and equipment, and infrastructure.

Major capital assets events during the current fiscal year included the following (in thousands):

Depreciation expense	\$ (9,849)
Hydrant projects	108
Meter replacements	735
West Parish Filters (WPF) water treatment plant projects	1,629
Water treatment system improvements projects	540
Waste water treatment system improvements projects	674
York Street and river design projects	26,358
Sewer main rehabilitation projects	1,998
Transmission system rehabilitations	207
Collection system assessment and rehabilitation	1,198
Distribution system rehabilitation projects	354
Provin Reservoir tank projects	384
Bypass and tunnel construction	1,188
New vehicle and equipment purchases	356
Computer software and equipment purchases	424
Various other rehab and improvement projects	2,680

Additional information on the Commission's capital assets can be found in the Notes to the Financial Statements, Note 10, *Capital Assets*.

Long-Term Debt

At the end of the current fiscal year, total bonded debt outstanding was \$237,373,443, all of which was backed by dedicated revenues of the Commission.

The Commission maintained their AA credit rating from Standard & Poor's (S&P) in the most recent bond rating in June 2021 for the secured loan issued by the U.S. Environmental Protection Agency under the Water Infrastructure Finance and Innovation Act (the WIFIA loan). At the same time, S&P affirmed the AA rating on the Commission's parity debt outstanding.

Additional information on the Commission's long-term debt can be found in the Notes to the Financial Statements, Note 13, *Long-Term Debt*.

Requests for Information

This financial report is designed to provide a general overview of the Springfield Water and Sewer Commission's finances for all those with an interest in the government's finances. Questions concerning any of the information provided in this report or requests for additional financial information should be addressed to:

Public Communications Director
Springfield Water and Sewer Commission
P.O. Box 995
Springfield, MA 01101-0995

SPRINGFIELD WATER AND SEWER COMMISSION

Statement of Net Position

June 30, 2021

Assets

Current:

Cash and short-term investments	\$ 37,099,742
Investments	13,372,383
Restricted cash	40,359,033
Restricted investments	20,897,885
Accounts receivable, net of allowance for uncollectibles	11,617,609
Intergovernmental receivables	89,152,794
Inventory, net of allowance	951,887
Other assets	<u>105,256</u>
Total Current Assets	213,556,589

Noncurrent:

Intergovernmental receivables, net of current portion	903,283
Inventory held by others	1,855,269
Health insurance deposit	495,227
Capital assets, net of accumulated depreciation	320,210,310
Land and construction in progress	<u>85,188,139</u>
Total Noncurrent Assets	<u>408,652,228</u>

Total Assets 622,208,817

Deferred Outflows of Resources

Related to pensions	2,904,937
Related to OPEB	3,054,933
Other	<u>99,815,599</u>

Total Deferred Outflows of Resources 105,775,469

(continued)

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

SPRINGFIELD WATER AND SEWER COMMISSION

Statement of Net Position

June 30, 2021

(continued)

Liabilities

Current:

Accounts payable	\$ 5,758,194
Accrued payroll and withholdings	221,232
Notes payable	77,585,000
Accrued interest payable	2,105,431
Current portion of bonds and loans payable	15,749,141
Current portion of accrued compensated absences	<u>152,329</u>
Total Current Liabilities	101,571,327

Noncurrent:

Bonds and loans payable, net of current portion	221,624,302
Accrued compensated absences, net of current portion	1,516,731
Net pension liability	69,512,469
Net OPEB liability	27,235,313
Accrued workers compensation	<u>168,377</u>
Total Noncurrent Liabilities	<u>320,057,192</u>

Total Liabilities 421,628,519

Deferred Inflows of Resources

Related to pensions	4,885,506
Related to OPEB	486,450
Other	<u>157,626,397</u>

Total Deferred Inflows of Resources 162,998,353

Net Position

Net investment in capital assets	181,781,706
Restricted for:	
Reserve for inventory	2,807,156
Reserve for stabilization fund	17,056,626
Reserve for debt covenants and scholarships	43,084,362
Unrestricted	<u>(101,372,436)</u>

Total Net Position \$ 143,357,414

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

SPRINGFIELD WATER AND SEWER COMMISSION

Statement of Revenues, Expenses and Changes in Fund Net Position For the Year Ended June 30, 2021

Operating Revenues	
Water and sewer usage	\$ 90,076,439
Other	470,735
Total Operating Revenues	<u>90,547,174</u>
Operating Expenses	
Salaries and wages	13,793,770
Employee benefits	10,632,203
Operations	26,238,699
Intergovernmental	626,879
Capital outlay	2,066,377
Depreciation and amortization	9,872,396
Other	561,908
Total Operating Expenses	<u>63,792,232</u>
Operating Income	26,754,942
Nonoperating Revenues (Expenses)	
Interest income	144,676
Interest expense	(5,575,113)
Grant reimbursement revenue	6,447,059
Total Nonoperating Revenues (Expenses), Net	<u>1,016,622</u>
Excess revenues before transfer requirement	27,771,564
Excess revenues used to fund deferrals	<u>(15,372,584)</u>
Change in Net Position	12,398,980
Net Position, Beginning of Year	<u>130,958,434</u>
Net Position, End of Year	<u>\$ 143,357,414</u>

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

SPRINGFIELD WATER AND SEWER COMMISSION

Statement of Cash Flows
For the Year Ended June 30, 2021

Cash Flows From Operating Activities	
Receipts from customers and users	\$ 88,734,941
Payments to vendors	(39,094,179)
Payments to employees	<u>(13,739,986)</u>
Net Cash Provided By Operating Activities	35,900,776
Cash Flows From Noncapital Financing Activities	
Intergovernmental receipts	<u>285,854</u>
Net Cash Provided By Noncapital Financing Activities	285,854
Cash Flows From Capital and Related Financing Activities	
Acquisition and construction of capital assets	(38,832,797)
Proceeds of intergovernmental notes and grants	23,652,556
Principal payments on bonds and loans	(12,861,138)
Interest paid	<u>(6,099,854)</u>
Net Cash (Used For) Capital and Related Financing Activities	(34,141,233)
Cash Flows From Investing Activities	
Purchase of investments	(2,772,061)
Investment gain	<u>144,676</u>
Net Cash (Used For) Investing Activities	<u>(2,627,385)</u>
Net Change in Cash and Short-Term Investments	(581,988)
Cash and Short-Term Investments, Beginning of Year	<u>78,040,763</u>
Cash and Short-Term Investments, End of Year	<u>\$ 77,458,775</u>
Reconciliation of Operating Income to Net Cash Provided By Operating Activities	
Operating income	\$ 26,754,942
Adjustments to reconcile operating income to net cash provided by operating activities:	
Depreciation and amortization	9,872,396
Changes in assets, liabilities, and deferred outflows/inflows:	
Accounts receivable	(1,812,233)
Inventory	(1,104,056)
Other assets	(45,521)
Deferred outflows - related to pensions	1,572,644
Deferred outflows - related to OPEB	(566,690)
Accounts payable and accrued payroll	1,962,039
Accrued compensated absences	(97,153)
Net pension liability	(1,140,367)
Net OPEB liability	1,279,795
Deferred inflows - related to pensions	(1,152,916)
Deferred inflows - related to OPEB	486,450
Accrued workers compensation	<u>(108,554)</u>
Net Cash Provided By Operating Activities	<u>\$ 35,900,776</u>
Noncash Capital and Related Investing Activities	
Principal debt forgiveness in grant reimbursement revenue	<u>\$ 5,639,796</u>

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

SPRINGFIELD WATER AND SEWER COMMISSION

Statement of Fiduciary Net Position
Other Post-Employment Benefit Trust Fund
June 30, 2021

Assets	
Cash	\$ 523,894
Investments	
Corporate equities	342,913
Equity mutual funds	3,386,522
Fixed income mutual funds	<u>1,199,835</u>
Total Investments	<u>4,929,270</u>
Total Assets	5,453,164
Net Position	
Restricted for OPEB purposes	<u>5,453,164</u>
Total Net Position	<u>\$ 5,453,164</u>

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

SPRINGFIELD WATER AND SEWER COMMISSION

Statement of Changes in Fiduciary Net Position
Other Post-Employment Benefit Trust Fund
For the Year Ended June 30, 2021

Additions	
Employer contributions	\$ 1,306,380
Interest	<u>939,227</u>
Total Additions	2,245,607
Deductions	
Benefit payments	<u>556,380</u>
Change in Net Position	1,689,227
Net Position Restricted for OPEB Purposes	
Beginning of Year	<u>3,763,937</u>
End of Year	<u><u>\$ 5,453,164</u></u>

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

SPRINGFIELD WATER AND SEWER COMMISSION

Notes to Basic Financial Statements

1. Summary of Significant Accounting Policies

The accounting policies of the Springfield Water and Sewer Commission (the Commission) conform to generally accepted accounting principles in the United States of America (GAAP) as applicable to governmental units. The following is a summary of the significant policies:

Business Entity

The Commission has the responsibility to provide water and wastewater services on a fair and equitable basis to the City of Springfield (the City) and to provide wholesale water and regional wastewater services to other participating communities.

Regulation and Basis of Accounting

The Springfield Water and Sewer Commission was created in July 1996 under Massachusetts General Laws Chapter 40N; however, the Commission did not become a separate accounting entity until July 1997. Under Massachusetts General Laws Chapter 40N, the Board of Commissioners, appointed by the Mayor of the City of Springfield, establishes policies for accounting and other matters. The Board regulates the rates that the Commission can charge its customers for water and sewer usage. The rates charged to customers are based on the cash required for the Commission's operations, debt service and reserve contributions.

To comply with the external financial reporting requirements of the Board, the accompanying financial statements are presented on a basis that is consistent with generally accepted accounting principles in the United States of America (GAAP) for proprietary (enterprise) funds.

To accommodate the rate-making process, the Commission follows the accounting standards set forth in Governmental Accounting Standards Board Statement No. 62 (GASB 62), *Codification of Accounting and Financial Reporting Guidance Contained in Pre-November 30, 1989 FASB and AICPA Pronouncements*. GASB 62 allows certain board approved (a) revenues provided for future allowable costs to be deferred until the costs are actually incurred (deferred inflows) and (b) costs incurred to be capitalized if future recovery is reasonably assured (deferred outflows).

Proprietary funds distinguish operating revenues and expenses from nonoperating items. Operating revenues and expenses generally result from providing services and producing and delivering goods in connection with a proprietary fund's principal ongoing operations. The principal operating revenues of the enterprise fund are charges to customers for sales and services. Operating expenses for enterprise funds include the cost of sales and services, administrative expenses, and depreciation on capital assets. All revenues and expenses not meeting this definition are reported as nonoperating revenues and expenses.

The fiduciary fund financial statements are reported using the *economic resources measurement focus* and the *accrual basis of accounting*. Under this method, revenues are recognized when earned and expenses are recorded when liabilities are incurred.

The Commission reports the following fiduciary fund:

- The *Other Post-Employment Benefit Trust Fund* is used to accumulate resources for health and life insurance benefits for retired employees.

Cash and Investments

Cash balances are invested to the extent available, and interest earnings are recognized in each fund.

For purposes of the statement of cash flows, the Commission considers investments with original maturities of three months or less to be cash equivalents. These are reflected in the following accounts reported on the statement of net position: cash and restricted cash.

Investments consist of certificates of deposit and federal agency securities, and are carried at fair value, except certificates of deposit, which are reported at cost. These are reflected in the following accounts reported on the statement of net position: investments and restricted investments.

Inventory for Consumption

Gasoline and diesel fuel purchased and unused at year end is stated at cost, and materials inventory is stated on the FIFO (first-in/first-out) basis.

Inventory Held by Others

Under the terms of a privatization agreement with SUEZ Water, Inc. the Commission transferred custody of certain inventory to SUEZ Water. The value stated was a negotiated value, which will be replaced by SUEZ Water at the expiration of the privatization contract in October 2040.

Capital Assets

Capital assets, which include property, plant, equipment, and infrastructure assets are defined by the Commission as assets with an initial individual cost of more than \$5,000 (for land, vehicles and equipment), \$10,000 (for buildings and improvements) and \$20,000 (for infrastructure) and an estimated useful life in excess of two years. Such assets are recorded at historical cost or estimated historical cost if purchased or constructed. Donated capital assets are recorded at acquisition value at the date of donation.

The costs of normal maintenance and repairs that do not add to the value of the asset or materially extend assets' lives are not capitalized.

Major outlays for capital assets and improvements are capitalized as projects are constructed.

Capital assets are depreciated using the straight-line method over the following estimated useful lives:

<u>Assets</u>	<u>Years</u>
Buildings and improvements	20 - 50
Water/sewer infrastructure	50 - 100
Vehicles	5 - 15
Office and computer equipment	5 - 10

Compensated Absences

It is the Commission's policy to permit employees to accumulate earned but unused vacation and sick pay benefits. All vested sick and vacation pay is accrued when incurred. Sick pay benefits are payable upon death or retirement, with certain limits, for all employees employed over six months.

Net Position

Net position represents the difference between assets/deferred outflows and liabilities/deferred inflows. Net investment in capital assets consists of capital assets, net of accumulated depreciation, reduced by the outstanding balances of any borrowing used for the acquisition, construction or improvement of those assets. Net position is reported as restricted when there are limitations imposed on their use either through the enabling legislation adopted by the Commission or through external restrictions imposed by creditors, grantors, or laws or regulations of other governments. The remaining net position is reported as unrestricted.

Use of Estimates

The preparation of basic financial statements in conformity with generally accepted accounting principles in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure for contingent assets and liabilities at the date of the basic financial statements, and the reported amounts of the revenues and expenses during the fiscal year. Actual results could vary from estimates that were used.

2. Stewardship, Compliance and Accountability

Budgetary Information

At the June meeting of the Commission, the Commissioners review and approve an operating and capital budget for the proposed expenses of the fiscal year commencing the following July 1. The original budget may be amended during the fiscal year at Commission meetings as required by changing conditions.

At year end, appropriation balances lapse, except for certain unexpended capital items which will be honored during the subsequent year.

A budget and actual comparison of operating expenses is presented as another supplementary schedule.

3. Deposits and Investments

Massachusetts General Law (MGL) Chapter 44, Section 55 places certain limitation on the nature of deposits and investments available to the Commission. Deposits, including demand deposits, money markets, certificates of deposits in any one financial institution, may not exceed 60% of the capital and surplus of such institution unless collateralized by the institution involved. Investments may be made in unconditionally guaranteed U.S. government obligations have maturities of a year or less from the date of purchase, or through repurchase agreements with maturities of no greater than 90 days in which the underlying securities consists of such obligations. Other allowable investments include certificates of deposits having a maturity date of up to 3 years from the date of purchase, national banks and Massachusetts Municipal Depository Trust (MMDT). MGL Chapter 44, Section 54 provides additional investment options for OPEB funds.

Custodial Credit Risk – Deposits

Custodial credit risk is the risk that in the event of bank failure, the Commission's deposits may not be returned. The Commission adopted an investment policy in fiscal year 2017. The Commission manages custodial credit risk by limiting deposits to those with minimal amounts of

risk (U.S. Treasury notes and agencies, fully insured certificates of deposit and investments permitted by the Commission's General Bond Resolution).

As of June 30, 2021, none of the Commission's bank balance of \$78,669,749 was exposed to custodial credit risk as uninsured and uncollateralized, or collateralized by securities held by the pledging financial institution, or collateralized by securities held by the pledging financial institution's trust department or agent but not in the Commission's name.

The Commission votes annually to fund capital projects from current year revenue. Included in the Commission's cash balance is \$13,099,445 voted by the Commission in prior years that has been reserved for ongoing capital projects.

Investment Summary

The following is a summary of the Commission's investments as of June 30, 2021:

<u>Investment Type</u>	<u>Amount</u>
Certificates of deposit	\$ 8,455,570
U.S. Treasury notes and agencies	<u>25,814,698</u>
Total Investments	<u>\$ 34,270,268</u>

Custodial Credit Risk – Investments

The custodial credit risk for investments is the risk that, in the event of the failure of the counterparty (e.g., broker-dealer) to a transaction, the Commission will not be able to recover the value of its investment or collateral securities that are in possession of another party. The Commission adopted an investment policy in fiscal year 2017. The Commission manages custodial credit risk by limiting investments to those with minimal amounts of risk (U.S. Treasury notes and agencies, fully insured certificates of deposit and investments permitted by the Commission's General Bond Resolution).

As of June 30, 2021, the Commission did not have investments subject to custodial credit risk exposure as all assets were held in the Commission's name.

Credit Risk – Investments of Debt Securities

Generally, credit risk is the risk that an issuer of an investment will not fulfill its obligations. For short-term investments that were purchased using surplus revenues, Massachusetts General Law, Chapter 44, Section 55, limits the Commission's investments to the top rating issued by at least one nationally recognized statistical rating organization (NRSROs). In addition, the Commission's investments are limited by Section 515 of the General Bond Resolution.

Of the Commission's investments, certificates of deposit are exempt from credit risk disclosure and all U.S. Treasury notes and agencies have an implied credit rating of AAA.

Concentration of Credit Risk – Investments

Concentration of credit risk is the risk of loss attributable to the magnitude of the Commission's investment in a single issuer. The Commission places no limit on the amount invested in any one issuer.

As of June 30, 2021, the Commission does not have investments in any one issuer that exceeds 5% of total investments.

Interest Rate Risk – Investments of Debt Securities

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Generally, the longer the maturity of an investment, the greater the sensitivity of its fair value to changes in market interest rates. The Commission does not have formal investment policies limiting investment maturities as a means of managing its exposure to fair value losses arising from increasing interest rates. The Commission manages interest rate risk by managing the duration of investments.

Information about the sensitivity of the fair values of the Commission’s investments to market interest rate fluctuations is as follows:

<u>Investment Type</u>	<u>Amount</u>	<u>Investment Maturities (in Years)</u>	
		<u>Less Than 1</u>	<u>1-5</u>
Certificates of deposit	\$ 8,455,570	\$ 4,147,470	\$ 4,308,100
U.S. Treasury notes and agencies	<u>25,814,698</u>	<u>9,189,525</u>	<u>16,625,173</u>
Total	<u>\$ 34,270,268</u>	<u>\$ 13,336,995</u>	<u>\$ 20,933,273</u>

Foreign Currency Risk – Investments

Foreign currency risk is the risk that changes in foreign exchange rates will adversely affect the fair value of an investment. The Commission does not have formal investment policies related to foreign currency risk.

Fair Value

The Commission categorizes its fair value measurements within the fair value hierarchy established by Governmental Accounting Standards Board Statement No. 72, *Fair Value Measurement and Application* (GASB 72).

The hierarchy is based on the valuation inputs used to measure the fair value of the asset and give the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (level 1 measurements) and the lowest priority to unobservable inputs (level 3 measurements). The hierarchy categorizes the inputs to valuation techniques used for fair value measurement into three levels as follows:

- Level 1 – inputs that reflect quoted prices (unadjusted) in active markets for identical assets or liabilities that the fund has the ability to access at the measurement date.
- Level 2 – inputs other than quoted prices that are observable for an asset or liability either directly or indirectly, including inputs in markets that are not considered to be active. Because they must often be priced on the basis of transactions involving similar but not identical securities or do not trade with sufficient frequency, certain directly held securities are categorized as level 2.
- Level 3 – unobservable inputs based on the best information available, using assumptions in determining the fair value of investments and derivative instruments.

In instances where inputs used to measure fair value fall into different levels in the fair value hierarchy, fair value measurements in their entirety are categorized based on the lowest level input that is significant to the valuation.

The Commission has the following fair value measurements as of June 30, 2021:

<u>Investment Type</u>	<u>Amount</u>	<u>Fair Value Measurements Using:</u>		
		<u>Quoted prices in active markets for identical assets (Level 1)</u>	<u>Significant observable inputs (Level 2)</u>	<u>Significant unobservable inputs (Level 3)</u>
Investments by fair value level:				
U.S. Treasury notes and agencies	\$ <u>25,814,698</u>	\$ <u>-</u>	\$ <u>25,814,698</u>	\$ <u>-</u>

Debt securities classified in Level 2 are valued using either a bid evaluation or a matrix pricing technique. Bid evaluations may include market quotations, yields, maturities, call features, and ratings. Matrix pricing is used to value securities based on the securities' relationship to benchmark quote prices. Level 2 debt securities have non-proprietary information that was readily available to market participants, from multiple independent sources, which are known to be actively involved in the market.

4. **Restricted Deposits and Investments**

The Commission issues debt under a General Bond Resolution which requires cash reserves to be maintained. These reserves are reported as either restricted cash or restricted investments.

The reserves include an Operating Reserve Fund (equal to 1/6 of the Commission's annual operating budget), a Renewal/Replacement Fund (\$1 million), a Debt Service Fund (equal to principal and interest, payable on an accrual basis at June 30), and a Debt Service Reserve Fund (equal to the highest principal and interest due in any subsequent year). In fiscal year 2017, the Commission also established a Stabilization fund reserve to help protect the financial condition of the Commission. In addition, the Bond Resolution establishes several other reserves which may be activated in future years.

The restricted deposits and investment balances reported in the financial statements are comprised of the following at June 30, 2021:

Stabilization Fund	\$ 17,056,626
Reserve Funds	
Operating reserve fund	9,887,307
Renewal/replacement fund	1,000,000
Debt service fund	10,986,028
Debt service reserve fund	21,127,838
Other Funds	
Project accounts	1,115,930
Scholarship trust fund	<u>83,189</u>
Total	<u>\$ 61,256,918</u>
Restricted Balances	
Restricted cash	40,359,033
Restricted investments	<u>20,897,885</u>
Total	<u>\$ 61,256,918</u>

5. Investments – OPEB Trust Fund

Generally, the Commission’s OPEB investment policies mirror that of the Commission as discussed in the previous note.

The following is a summary of the OPEB Trust Fund’s investments as of June 30, 2021:

<u>Investment Type</u>	<u>Amount</u>
Corporate equities	\$ 342,913
Equity mutual funds	3,386,522
Fixed income mutual funds	<u>1,199,835</u>
Total Investments	<u>\$ 4,929,270</u>

Custodial Credit Risk

As of June 30, 2021, none of the OPEB Trust Fund’s total investments were subject to custodial credit risk exposure because the related securities are uninsured, unregistered, and/or held by the OPEB Trust Fund’s brokerage firm, which is also the counterparty to these securities.

Credit Risk – Investments of Debt Securities

As of June 30, 2021, the credit quality ratings, as rated by Moody’s Investors Service, Inc., of the Commission’s OPEB Trust Fund’s debt securities are as follows:

<u>Investment Type</u>	<u>Amount</u>	<u>Rating as of Year-End</u>					
		<u>AAA</u>	<u>AA/A</u>	<u>BBB</u>	<u>BB/B</u>	<u>Below B</u>	<u>Unrated</u>
Corporate equities	\$ 342,913	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 342,913
Equity mutual funds	3,386,522	-	-	-	-	-	3,386,522
Fixed income mutual funds	<u>1,199,835</u>	<u>241,686</u>	<u>304,893</u>	<u>267,474</u>	<u>205,297</u>	<u>87,240</u>	<u>93,245</u>
Total	<u>\$ 4,929,270</u>	<u>\$ 241,686</u>	<u>\$ 304,893</u>	<u>\$ 267,474</u>	<u>\$ 205,297</u>	<u>\$ 87,240</u>	<u>\$ 3,822,680</u>

Concentration of Credit Risk

As of June 30, 2021, the OPEB Trust Fund does not have an investment in one issuer greater than 5% of total investments.

Interest Rate Risk

Information about the sensitivity of the fair values of the OPEB Trust Fund’s investments to market interest rate fluctuations is as follows:

<u>Investment Type</u>	<u>Amount</u>	<u>Investment Maturities (in Years)</u>			
		<u>Less Than 1</u>	<u>1-5</u>	<u>6-10</u>	<u>Thereafter</u>
Fixed income mutual funds	\$ <u>1,199,835</u>	\$ <u>104,902</u>	\$ <u>273,513</u>	\$ <u>462,459</u>	\$ <u>358,961</u>
Total	\$ <u>1,199,835</u>	\$ <u>104,902</u>	\$ <u>273,513</u>	\$ <u>462,459</u>	\$ <u>358,961</u>

Fair Value

The OPEB Trust Fund has the following fair value measurements as of June 30, 2021:

<u>Investment Type</u>	<u>Amount</u>	<u>Fair Value Measurements Using:</u>		
		<u>Quoted prices in active markets for identical assets (Level 1)</u>	<u>Significant observable inputs (Level 2)</u>	<u>Significant unobservable inputs (Level 3)</u>
Investments by fair value level:				
Corporate equities	\$ 342,913	\$ 342,913	\$ -	\$ -
Equity mutual funds	3,386,522	3,386,522	-	-
Fixed income mutual funds	<u>1,199,835</u>	<u>-</u>	<u>1,199,835</u>	<u>-</u>
Total	<u>\$ 4,929,270</u>	<u>\$ 3,729,435</u>	<u>\$ 1,199,835</u>	<u>\$ -</u>

Equity securities classified in Level 1 are valued using prices quoted in active markets for those securities.

Debt securities classified in Level 2 are valued using either a bid evaluation or a matrix pricing technique. Bid evaluations may include market quotations, yields, maturities, call features, and ratings. Matrix pricing is used to value securities based on the securities relationship to benchmark quote prices. Level 2 debt securities have non-proprietary information that was readily available to market participants, from multiple independent sources, which are known to be actively involved in the market.

6. Accounts Receivable

Accounts receivable consist of the following at June 30, 2021:

Billed water, sewer and wastewater regional	\$ 6,097,153
Less: allowances	<u>(1,410,515)</u>
Total Billed	4,686,638
Unbilled water (including power generation) and sewer	6,945,500
Adjustment to wastewater regional and sewer pump station for actual usage through June 30, 2021	<u>(14,529)</u>
Total	<u>\$ 11,617,609</u>

7. Intergovernmental Receivables

The balance in this account represents the following:

	<u>Current</u>	<u>Non-Current</u>
Massachusetts Clean Water Trust loan funds not yet requested (or expended on project costs) as of June 30, 2021. These funds are expected to be drawn down as project costs are incurred in fiscal year 2021.	\$ 89,049,959	\$ -
Amount due from the Town of Wilbraham under an agreement signed in June 2007, whereby the Town agrees to reimburse the Commission a portion of the costs/debt incurred to enable the Town to enter the sewage disposal system. Future amounts to be paid by the Town are anticipated to coincide with certain debt issued by the Commission, which mature in fiscal years 2026 through 2038.	<u>102,835</u>	<u>903,283</u>
Total	<u>\$ 89,152,794</u>	<u>\$ 903,283</u>

8. Inventory for Consumption

This inventory balance at June 30, 2021 consists of the following:

Fuel inventory (gasoline and diesel)	\$ 79,700
Materials inventory (parts and supplies)	1,145,777
Less: adjustment for obsolete and slow moving materials inventory	<u>(273,590)</u>
Total	<u>\$ 951,887</u>

9. Health Insurance Deposit

The Commission participates in the Hampshire County Group Insurance Trust (the Trust) to provide health insurance coverage to its employees. When the Commission joined the Trust, they were required to place on deposit the equivalent of 3 months (estimated) claims expense. This deposit reserve affords the Commission voting rights in the Trust and would only be used to fund the residual claims in the event the Commission withdraws from the Trust.

10. Capital Assets

Capital assets activity for the year ended June 30, 2021 was as follows (in thousands):

	Beginning Balance	Increases	Decreases	Convert CIP	Ending Balance
Capital Assets, Being Depreciated					
Furniture and fixtures	\$ 12,593	\$ -	\$ -	\$ 662	\$ 13,255
Vehicles and equipment	11,399	-	-	528	11,927
Buildings and improvements	9,512	-	-	52	9,564
Infrastructure	<u>469,947</u>	<u>-</u>	<u>-</u>	<u>13,318</u>	<u>483,265</u>
Total Capital Assets, Being Depreciated	503,451	-	-	14,560	518,011
Less Accumulated Depreciation					
Furniture and fixtures	(8,485)	(736)	-	-	(9,221)
Vehicles and equipment	(10,201)	(676)	-	-	(10,877)
Buildings and improvements	(3,362)	(323)	-	-	(3,685)
Infrastructure	<u>(165,904)</u>	<u>(8,114)</u>	<u>-</u>	<u>-</u>	<u>(174,018)</u>
Total Accumulated Depreciation	<u>(187,952)</u>	<u>(9,849)</u>	<u>-</u>	<u>-</u>	<u>(197,801)</u>
Total Capital Assets, Being Depreciated, Net	315,499	(9,849)	-	14,560	320,210
Capital Assets, Not Being Depreciated					
Land	5,871	-	-	313	6,184
Construction in progress (CIP)	<u>55,044</u>	<u>38,833</u>	<u>-</u>	<u>(14,873)</u>	<u>79,004</u>
Total Capital Assets, Not Being Depreciated	<u>60,915</u>	<u>38,833</u>	<u>-</u>	<u>(14,560)</u>	<u>85,188</u>
Capital Assets, Net	<u>\$ 376,414</u>	<u>\$ 28,984</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 405,398</u>

11. Deferred Outflows and Inflows of Resources

To accommodate the rate-making process, the Commission follows the accounting standards set forth in Financial Accounting Standards Codification Section 980 (FASC 980), *Accounting for the Effects of Certain Types of Regulation*. FASC 980 allows certain board approved (a) revenues provided for future allowable costs to be deferred until the costs are actually incurred (deferred credits) and (b) costs incurred to be capitalized if future recovery is reasonably assured (deferred charges).

Deferred Outflows

Deferred outflows of resources represent the consumption of net position by the Commission that is applicable to future reporting periods. Deferred outflows of resources have a positive effect on net position, similar to assets.

The following is a summary of deferred outflow of resources balances as of June 30, 2021:

Total related to pensions	\$ 2,904,937
Total related to OPEB	3,054,933
Other:	
Unamortized loss on refunding of debt	1,230,380
Deferred charges	<u>98,585,219</u>
Total Other	<u>99,815,599</u>
Total Deferred Outflows	\$ <u>105,775,469</u>

The balance in unamortized loss on refunding of debt represents the difference between the amount required to pay off the previously issued debt and the net carrying amount of old debt. This difference is amortized over the shorter of the original debt amortization period or the life of the new debt.

Deferred charges consist of costs incurred to privatize and upgrade the wastewater regional plant facility, accrued sick, vacation and other compensated absences, accrued workers compensation costs, net OPEB liability, and net pension liability. The privatization costs were funded through adjustments to regional wastewater member town assessments over the life of the privatization contract, which ended in fiscal year 2021. Other costs will be recovered through future rates or matched against credits related to the specific costs in the future.

Deferred outflows of resources related to pensions and OPEB, in accordance with GASB Statements No. 68 and 75, are more formally discussed in the corresponding pension and OPEB notes.

Deferred Inflows

Deferred inflows of resources are the acquisition of net position by the Springfield Water and Sewer Commission that are applicable to future reporting periods. Deferred inflows of resources have a negative effect on net position, similar to liabilities.

The following is a summary of deferred inflows of resources balances as of June 30, 2021:

Total related to pensions	\$ 4,885,506
Total related to OPEB	486,450
Other:	
Deferred credits	<u>157,626,397</u>
Total Deferred Inflows	<u>\$ 162,998,353</u>

Deferred credits consist primarily of amounts raised through rates specifically earmarked for capital improvements and debt repayment are recorded as deferred credits and will be reversed through the Statement of Revenues, Expenses and Changes in Fund Net Position over the depreciable life of the asset and related debt repayment.

Deferred inflows of resources related to pensions and OPEB, in accordance with GASB Statements No. 68 and 75, will be recognized as expense in future years and are more fully described in the corresponding pension and OPEB notes.

The application of FASC 980 results in certain revenues and expenses being removed from the Statement of Revenues, Expenses and Changes in Fund Net Position and reflected in the Statement of Net Position as deferred outflows or deferred inflows. The revenues and expenses that have been removed from the Statement of Revenues, Expenses and Changes in Fund Net Position and added to the Statement of Net Position appear in the line "Excess revenues used to fund deferrals" on the Statement of Revenues, Expenses and Changes in Fund Net Position. The detail of changes to and components of these amounts are as follows:

	<u>Beginning Balance</u>	<u>Increase (Decrease)</u>	<u>Ending Balance</u>
Deferred Charges			
Net pension liability	\$ 70,652,836	\$ (1,140,367)	\$ 69,512,469
Net OPEB liability	25,955,518	1,279,795	27,235,313
Accrued compensated absences	1,766,213	(97,153)	1,669,060
Accrued workers compensation	276,931	(108,554)	168,377
Privatization costs	<u>24,933</u>	<u>(24,933)</u>	<u>-</u>
Total Deferred Charges	<u>\$ 98,676,431</u>	<u>\$ (91,212)</u>	<u>\$ 98,585,219</u>
Deferred Credits			
Capital improvements, net of depreciation	\$ 41,759,346	\$ 2,453,008	\$ 44,212,354
Principal debt payments	100,065,519	12,853,297	112,918,816
Group insurance deposit	<u>495,227</u>	<u>-</u>	<u>495,227</u>
Total Deferred Credits	<u>\$ 142,320,092</u>	<u>15,306,305</u>	<u>\$ 157,626,397</u>
Net change for year		(15,397,517)	
Less: privatization costs included in amortization expense		<u>24,933</u>	
Excess Revenues Used to Fund Deferrals		<u>\$ (15,372,584)</u>	

12. Notes Payable

The Commission had the following short-term notes from direct borrowings outstanding at June 30, 2021:

<u>Purpose</u>	<u>Interest Rate(s)%</u>	<u>Date of Issue</u>	<u>Date of Maturity</u> *	<u>Balance at June 30, 2021</u>
Massachusetts Clean Water Trust Interim note CW 18-18B	0.00%	05/05/21	05/13/24	\$ 14,548,793
Massachusetts Clean Water Trust Interim note CW 18-18C	0.00%	05/05/21	05/13/24	1,649,713
Massachusetts Clean Water Trust Interim note CW 18-18D	0.00%	03/04/20	12/31/21	55,044,592
Massachusetts Clean Water Trust Interim note CW 18-18E	0.00%	07/10/19	12/31/21	<u>6,341,902</u>
Total				<u>\$ 77,585,000</u>

* Maturity date is flexible and will be determined when the balance is converted to a long-term note.

The following summarizes activity in notes payable during fiscal year 2021:

<u>Purpose</u>	<u>Balance Beginning of Year</u>	<u>Issuance of New Note</u>	<u>Converted to New Note</u>	<u>Converted to Long-Term Debt</u>	<u>Balance End of Year</u>
Massachusetts Clean Water Trust Interim note CW 18-18	\$ 109,044,592	\$ -	\$ (55,044,592)	\$ (54,000,000)	\$ -
Massachusetts Clean Water Trust Interim note CW 18-18A	12,341,902	-	(6,341,902)	(6,000,000)	-
Massachusetts Clean Water Trust Interim note CW 18-18B	-	14,548,793	-	-	14,548,793
Massachusetts Clean Water Trust Interim note CW 18-18C	-	1,649,713	-	-	1,649,713
Massachusetts Clean Water Trust Interim note CW 18-18D	-	-	55,044,592	-	55,044,592
Massachusetts Clean Water Trust Interim note CW 18-18E	-	-	<u>6,341,902</u>	-	<u>6,341,902</u>
Total	<u>\$ 121,386,494</u>	<u>\$ 16,198,506</u>	<u>\$ -</u>	<u>\$ (60,000,000)</u>	<u>\$ 77,585,000</u>

13. Long-Term Debt

Revenue Bonds and Loans from Direct Borrowings

All debt issued by the Commission has been issued as revenue bonds and loans from direct borrowings. Under the terms of these bonds, all operating revenues of the Commission are deposited in a dedicated operating reserve account and from which prescribed reserves are established (see restricted cash footnote). Loans from direct borrowings are excluded from some of these reserve requirements. In addition, all bond proceeds have been deposited in separate project accounts that are under the lender's controls. These project accounts may be accessed only to fund project-related costs.

Revenue bonds and loans from direct borrowings outstanding as of June 30, 2021 are as follows:

	Serial Maturities <u>Through</u>	Interest Rate(s)% <u></u>	Loan Balance Outstanding <u>June 30, 2021</u>	Bond Premium <u></u>	Total Balance <u>June 30, 2021</u>
Revenue Bonds					
Revenue bonds - 2007A (refunding)	11/01/21	4.0 - 5.0	\$ 840,000	\$ -	\$ 840,000
Revenue bonds - 2014C (refunding)	07/15/26	3.0 - 5.0	8,680,000	1,425,872	10,105,872
Revenue bonds - 2017B (refunding)	04/15/31	2.0 - 5.0	19,490,000	2,648,041	22,138,041
Revenue bonds - 2014A	07/15/34	3.0 - 5.0	20,055,000	1,030,400	21,085,400
Revenue bonds - 2017C	04/15/37	2.0 - 5.0	16,880,000	2,873,385	19,753,385
Revenue bonds - 2019E	04/15/39	4.0	<u>19,090,000</u>	<u>2,420,436</u>	<u>21,510,436</u>
Total Revenue Bonds			85,035,000	10,398,134	95,433,134
Loans - Direct Borrowings					
Sewer CSO (MCWT CW-01-39)	08/01/22	1.00 - 2.75	442,267	-	442,267
Sewer CSO (MCWT CW-08-36)	07/15/30	2.00	5,357,657	-	5,357,657
Sewer CSO (MCWT CW-08-36-A)	07/15/32	2.00	3,993,536	-	3,993,536
Water (MCWT DW-10-06)	07/15/32	2.00	1,116,542	-	1,116,542
Water (MCWT DW-11-01)	07/15/32	2.00	4,165,107	-	4,165,107
Water (MCWT DW-11-22)	01/15/33	2.00	1,020,789	-	1,020,789
Sewer CSO (MCWT CW-12-03)	01/15/35	2.00	14,621,906	-	14,621,906
Water (MCWT DW-13-16)	01/15/35	2.00	16,810,096	-	16,810,096
Sewer CSO (MCWT CW-14-27)	01/15/37	2.00	19,112,267	-	19,112,267
Sewer CSO (MCWT CW-06-27)	07/15/37	2.00	19,020,839	-	19,020,839
Sewer CSO (MCWT CW-14-27) additional	01/15/40	2.00	1,919,098	-	1,919,098
Sewer CSO (MCWT CW-18-18)	01/15/41	2.00	49,107,582	-	49,107,582
Sewer CSO (MCWT CW-18-18A)	01/15/41	2.00	<u>5,252,623</u>	<u>-</u>	<u>5,252,623</u>
Total Loans - Direct Borrowings			<u>141,940,309</u>	<u>-</u>	<u>141,940,309</u>
Total Long-Term Debt			\$ <u>226,975,309</u>	\$ <u>10,398,134</u>	\$ <u>237,373,443</u>

Future Debt Service

The annual payments to retire all long-term debt outstanding (including bond premium amortization) as of June 30, 2021 are as follows:

	<u>Revenue Bonds</u>		<u>Loans - Direct Borrowings</u>	
	<u>Principal</u>	<u>Interest</u>	<u>Principal</u>	<u>Interest</u>
2022	\$ 8,205,105	\$ 3,730,825	\$ 7,544,036	\$ 2,537,840
2023	7,515,105	3,394,475	7,705,055	2,734,301
2024	7,690,105	3,067,225	7,648,268	2,580,191
2025	7,425,105	2,755,525	7,816,317	2,422,687
2026	7,555,105	2,440,800	7,988,058	2,261,709
2027 - 2031	31,224,942	8,099,475	42,651,733	8,766,954
2032 - 2036	19,994,677	3,145,175	40,201,779	4,415,353
Thereafter	<u>5,822,990</u>	<u>391,950</u>	<u>20,385,063</u>	<u>1,076,568</u>
Total	\$ <u>95,433,134</u>	\$ <u>27,025,450</u>	\$ <u>141,940,309</u>	\$ <u>26,795,603</u>

Changes in General Long-Term Liabilities

During the year ended June 30, 2021, the following changes occurred in long-term liabilities (in thousands):

	Beginning			Ending	Less	Equals
	<u>Balance</u>	<u>Additions</u>	<u>Reductions</u>	<u>Balance</u>	<u>Current</u>	<u>Long-Term</u>
					<u>Portion</u>	<u>Portion</u>
Revenue bonds	\$ 92,220	\$ -	\$ (7,185)	\$ 85,035	\$ (7,315)	\$ 77,720
Loans payable (direct borrowings)	93,254	54,360	(5,676)	141,938	(7,544)	134,394
Unamortized premium	<u>11,403</u>	<u>-</u>	<u>(1,003)</u>	<u>10,400</u>	<u>(890)</u>	<u>9,510</u>
Subtotal - bond and loans payable	196,877	54,360	(13,864)	237,373	(15,749)	221,624
Accrued compensated absences	1,766	148	(245)	1,669	(152)	1,517
Net pension liability	70,653	-	(1,141)	69,512	-	69,512
Net OPEB liability	25,956	1,279	-	27,235	-	27,235
Accrued workers compensation	<u>277</u>	<u>-</u>	<u>(109)</u>	<u>168</u>	<u>-</u>	<u>168</u>
Total	<u>\$ 295,529</u>	<u>\$ 55,787</u>	<u>\$ (15,359)</u>	<u>\$ 335,957</u>	<u>\$ (15,901)</u>	<u>\$ 320,056</u>

Bond Covenants

The Commission's General Bond Resolution contains various restrictive covenants including, among other things, restrictions on incurring both short-term and long-term debt in certain circumstances and restrictions on selling, mortgaging, leasing or otherwise disposing of any part of the system. The Bond Resolution requires the Commission to establish water and sewer rates at least sufficient to pay current expenses, pay principal and interest of indebtedness, create and maintain reserves required by bond resolutions, and pay the cost of all necessary repairs, replacements, and renewals of the system. They also require certain accounts to be established and maintained (Note 4), the balances of which are restricted to various operating, debt service, capital expenditure, and renewal and replacement purposes. The Commission has pledged all cash accounts and revenues as collateral for the debt.

In addition, the Commission is required to comply with certain bond covenants which require that "net revenues" as defined in the General Resolution, for each fiscal year shall equal at least 125% of the Debt Service Requirement.

The Commission was in compliance with all bond covenants for the year ended June 30, 2021.

14. Restricted Net Position

The balance in restricted net position of \$62,948,144 represents the restricted cash balance for required reserves and scholarships of \$43,084,362, the balance in the Commission's Stabilization fund of \$17,056,626, and the total value of inventory of \$2,807,156.

15. Springfield Contributory Retirement System

The Commission follows the provisions of GASB Statement No. 68, *Accounting and Financial Reporting for Pensions – an amendment of GASB Statement No. 27*, with respect to the employees' retirement funds.

Plan Description

Substantially all full-time employees of the Commission are members of in the City of Springfield Contributory Retirement System (the System), a cost-sharing, multiple-employer,

contributory defined benefit pension plan administered by the City of Springfield Retirement Board. Eligible employees must participate in the System. The pension plan provides pension benefits, deferred allowances, and death and disability benefits. Chapter 32 of the Massachusetts General Laws establishes the authority of the System, contribution percentages and benefits paid. The System Retirement Board does not have the authority to amend benefit provisions. Additional information is disclosed in the System's annual financial reports publicly available from the System located at 70 Tapley Street, Springfield, MA 01104.

Participant Contributions

Participants contribute a set percentage of their gross regular compensation annually. Employee contribution percentages are specified in Chapter 32 of the Massachusetts General Laws. The employee's individual contribution percentage is determined by their date of entry into the system. In addition, all employees hired on or after January 1, 1979 contribute an additional 2% on all gross regular compensation over the rate of \$30,000 per year. The percentages are as follows:

Before January 1, 1975	5%
January 1, 1975 - December 31, 1983	7%
January 1, 1984 - June 30, 1996	8%
Beginning July 1, 1996	9%

For those members entering a Massachusetts System on or after April 2, 2012 in Group 1, the contribution rate will be reduced to 6% when at least 30 years of creditable service has been attained.

Participant Retirement Benefits

A retirement allowance consists of two parts: an annuity and a pension. A member's accumulated total deductions and a portion of the interest they generate constitute the annuity. The difference between the total retirement allowance and the annuity is the pension. The average retirement benefit is approximately 80-85% pension and 15-20% annuity.

The System provides for retirement allowance benefits up to a maximum of 80% of a member's highest 3-year average annual rate of regular compensation for those hired prior to April 2, 2012 and the highest 5-year average annual rate of regular compensation for those first becoming members of the Massachusetts System on or after that date. However, per Chapter 176 of the Acts of 2011, for members who retire on or after April 2, 2012, if in the 5 years of creditable service immediately preceding retirement, the difference in the annual rate of regular compensation between any 2 consecutive years exceeds 100%, the normal yearly amount of the retirement allowance shall be based on the average annual rate of regular compensation received by the member during the period of 5 consecutive years preceding retirement. Benefit payments are based upon a member's age, length of creditable service, level of compensation, and group classification.

There are four classes of membership in the retirement system, but one of these classes, Group 3, is made up exclusively of the Massachusetts State Police. The other three classes are as follows:

- Group 1 – General employees, including clerical, administrative, technical, and all other employees not otherwise classified.
- Group 2 – Certain specified hazardous duty positions.
- Group 4 – Police officers, firefighters, and other specified hazardous positions.

A retirement allowance may be received at any age, upon attaining 20 years of service. The plan also provides for retirement at age 55 if the participant was a member prior to January 1, 1978, with no minimum vesting requirements. If the participant was a member on or after January 1, 1978 and a member of Groups 1 or 2, then a retirement allowance may be received if the participant (1) has at least 10 years of creditable service, (2) is age 55, (3) voluntarily left Commission employment on or after that date, and (4) left accumulated annuity deductions in the fund. Members of Group 4 have no minimum vesting requirements, however, must be at least age 55. Groups 2 and 4 require that participants perform the duties of the Group position for at least 12 months immediately prior to retirement.

A participant who became a member on or after April 2, 2012 is eligible for a retirement allowance upon 10 years creditable service and reaching ages 60 or 55 for Groups 1 and 2, respectively. Participants in Group 4 must be at least age 55. Groups 2 and 4 require that participants perform the duties of the Group position for at least 12 months immediately prior to retirement.

Methods of Payment

A member may elect to receive his or her retirement allowance in one of three forms of payment as follows:

- Option A – Total annual allowance, payable in monthly installments, commencing at retirement and terminating at the member’s death.
- Option B – A reduced annual allowance, payable in monthly installments, commencing at retirement and terminating at the death of the member, provided however, that if the total amount of the annuity portion received by the member is less than the amount of his or her accumulated deductions, including interest, the difference or balance of his accumulated deductions will be paid in a lump sum to the retiree’s beneficiary or beneficiaries of choice.
- Option C – A reduced annual allowance, payable in monthly installments, commencing at retirement. At the death of the retired employee, 2/3 of the allowance is payable to the member’s designated beneficiary (who may be the spouse, or former spouse who has not remarried, child, parent, sister, or brother of the employee) for the life of the beneficiary. For members who retired on or after January 12, 1988, if the beneficiary pre-deceases the retiree, the benefit payable increases (or “pops up” to Option A) based on the factor used to determine the Option C benefit at retirement. For members who retired prior to January 12, 1988, if the System has accepted Section 288 of Chapter 194 of the Acts of 1998 and the beneficiary pre-deceases the retiree, the benefit payable “pops up” to Option A in the same fashion. The Option C became available to accidental disability retirees on November 7, 1996.

Participant Refunds

Employees who resign from service and who are not eligible to receive a retirement allowance are entitled to request a refund of their accumulated total deductions. Members voluntarily withdrawing with at least 10 years of service or involuntarily withdrawing, receive 100% of the regular interest that has accrued on those accumulated total deductions. Members voluntarily withdrawing with less than 10 years of service get credited interest each year at a rate of 3%.

Employer Contributions

Employers are required to contribute at actuarially determined rates as accepted by the Public Employee Retirement Administration Commission (PERAC).

The Commission’s contribution to the System for the year ended June 30, 2021 was approximately \$6 million, which was equal to its annual required contribution.

Summary of Significant Accounting Policies

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

Pension Liabilities, Pension Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pension

At June 30, 2021, the Commission reported a liability of approximately \$70 million for its proportionate share of the net pension liability. The net pension liability was measured as of December 31, 2020, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of January 1, 2020. The Commission's proportion of the net pension liability was based on a projection of the Commission's long-term share of contributions to the pension plan relative to the projected contributions of all participating employers, actuarially determined. At June 30, 2021, the Commission's proportion was 7.69%, which was an increase of 0.02% from its proportion measured as of December 31, 2019.

For the year ended June 30, 2021, the Commission recognized pension expense of approximately \$5 million. In addition, the Commission reported deferred outflows and inflows of resources related to pensions from the following sources (in thousands):

	Deferred Outflows of <u>Resources</u>	Deferred Inflows of <u>Resources</u>
Differences between expected and actual experience	\$ 1,081	\$ (215)
Changes in assumptions	1,824	-
Net difference between projected and actual earnings on pension plan investments	-	(1,554)
Changes in proportion and differences between contributions and proportionate share of contributions	<u>-</u>	<u>(3,117)</u>
Total	<u>\$ 2,905</u>	<u>\$ (4,886)</u>

The Commission's contribution to the pension plan was made prior to the measurement date of December 31, 2020; no contribution was made subsequent to the measurement date.

Amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense as follows (in thousands):

<u>Year ended June 30:</u>	
2022	\$ (993)
2023	(227)
2024	(551)
2025	<u>(210)</u>
Total	\$ <u>(1,981)</u>

Actuarial Assumptions

The total pension liability in the January 1, 2020 actuarial valuation was determined using the following actuarial assumptions, applied to all periods included in the measurement:

Valuation Date	January 1, 2020
Actuarial cost method	Entry Age Normal Cost Method
Actuarial assumptions:	
Investment rate of return	7.25%, net of pension plan investment expense, including inflation
Projected salary increases	4.25 – 4.75% per year
Inflation rate	Not explicitly assumed
Post-retirement cost-of-living adjustment	3% of the first \$13,000 of retirement income
Remaining amortization period	12 years from July 1, 2021

Pre-retirement mortality rates reflect the RP-2014 Blue Collar Employees table projected generationally with Scale MP-2018 (gender distinct). Post-retirement rates reflect the RP-2014 Blue Collar Healthy Annuitant table projected generationally with Scale MP-2018 (gender distinct). For disabled retirees, the rates reflect the RP-2014 Blue Collar Healthy Annuitant table set forward 1 year projected generationally with Scale MP-2018 (gender distinct).

The actuarial assumptions used in the January 1, 2020 valuation were based on the results of the most recent actuarial experience study, which was for the two years ending December 31, 2019.

Target Allocation

The long-term expected rate of return on pension plan investments was selected from the best estimate range determined using the building block approach. Under this method, an expected future real return range (expected returns, net of pension plan investment expense and inflation) is calculated separately for each asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return net of investment expenses 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 class are summarized in the table on the following page.

<u>Asset Class</u>	<u>Target Asset Allocation</u>	<u>Long-term Expected Real Rate of Return</u>
Domestic equities	23.10%	6.40%
International equities	14.40%	6.60%
Emerging international equities	5.80%	8.40%
Hedged equities	8.80%	5.70%
Core fixed income	15.80%	2.25%
Value added fixed income	7.40%	6.20%
Private equity	12.60%	10.20%
Real estate	8.30%	6.00%
Timberland	3.30%	6.60%
Portfolio completion	<u>0.50%</u>	5.20%
Total	<u>100.00%</u>	

Discount Rate

The discount rate used to measure the total pension liability was 7.25%. The projection of cash flows used to determine the discount rate assumed that the plan member contributions will be made at the current contribution rate and that employer contributions will be made at contractually required rates, actuarially determined. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments to current active and inactive 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.

Sensitivity of the Proportionate Share of the Net Pension Liability to Changes in the Discount Rate

The following presents the Commission's proportionate share of the net pension liability calculated using the discount rate of 7.25%, as well as what the Commission's proportionate share of the net pension liability would be if it were calculated using a discount rate that is one percentage-point lower or one percentage-point higher than the current rate (in thousands):

1%	Current Discount Rate	1%
Decrease	Rate	Increase
<u>(6.25%)</u>	<u>(7.25%)</u>	<u>(8.25%)</u>
\$80,692	\$69,512	\$60,011

Pension Plan Fiduciary Net Position

Detailed information about the pension plan's fiduciary net position is available in the separately issued System financial report.

16. Other Post-Employment Benefits (GASB 74 and GASB 75)

GASB Statement No. 74, *Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans (OPEB)*, replaces the requirements of Statement No. 43, *Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans*. This applies if a trust fund has been established to fund future OPEB costs. In fiscal year 2016, the Commission established a single employer defined benefit OPEB Trust Fund to provide funding for future employee health care costs. OPEB Trust Fund does not issue a stand-alone financial report.

GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions*, replaces the requirements of Statement No. 45, *Accounting and Financial Reporting by Employers for Postemployment Benefits Other Than Pensions*. The Statement establishes standards for recognizing and measuring liabilities, deferred outflows of resources, deferred inflows of resources, and expenses. This Statement identifies the methods and assumptions that are required to be used to project benefit payments, discounted projected benefit payments to their actuarial present value, and attribute that present value to periods of employee service.

All the following OPEB disclosures are based on a measurement date of June 30, 2021.

General Information about the OPEB Plan

Plan Description

The Commission provides post-employment healthcare benefits for retired employees through the Commission’s plan. The Commission provides health insurance coverage through the Hampshire County Group Insurance Trust (HCGIT). The benefits, benefit levels, employee contributions, and employer contributions are governed by Chapter 32 of the Massachusetts General Laws.

Benefits Provided

The Commission provides medical and prescription drug insurance to retirees and their covered dependents. All active employees who retire from the Commission and meet the eligibility criteria will receive these benefits.

Funding Policy

The Commission’s funding policy includes financing the implicit subsidy on a pay-as-you-go basis, as required by statute. Additional contributions are based on annual budget authorizations.

Plan Membership

At June 30, 2021, the following employees were covered by the benefit terms:

Inactive employees or beneficiaries	
currently receiving benefit payments	121
Active employees	<u>227</u>
Total	<u><u>348</u></u>

Investments

The OPEB trust fund assets consist of corporate equities, equity mutual funds, and fixed income mutual funds. The OPEB funds are managed in accordance with the “prudent person” rule, which allows a wider range of investment instruments in accordance with the principles of safety, liquidity, and yield. Additional information about the OPEB Trust Fund’s investments can be found in the *Investments – OPEB Trust Fund* footnote.

Rate of Return

For the year ended June 30, 2021, the annual money-weighted rate of return on investments, net of investment expense, was 13.35%. The money-weighted rate of return expenses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

Actuarial Assumptions and Other Inputs

The net OPEB liability was determined by an actuarial valuation as of July 1, 2019, using the following actuarial assumptions, applied to all periods included in the measurement, unless otherwise specified:

Inflation	not explicitly stated
Salary increases	3.0%, average, including inflation
Investment rate of return	6.5%, net of OPEB plan investment expense
Municipal bond rate	2.09%
Discount rate	2.66%
Healthcare cost trend rates	7.25% for 2021, fluctuating 0.25% to an ultimate rate of 4.5% as of July 1, 2031 and later years
Retirees' share of benefit-related costs	25%
Participation rate	100% of eligible active employees

Mortality rates were based on Society of Actuaries Pub-2010 Public Retirement Plans Healthy Male and Female Total Dataset Headcount-Weighted Mortality tables based on Employee and Healthy Annuitant Tables for both pre and post retirement projection with mortality improvements using the most current Society of Actuaries Mortality Improvement Scale MP-2019.

The actuarial assumptions used in the valuation were based on the results of an actuarial experience study as of July 1, 2019.

Target Allocations

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 expense 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 June 30, 2021 are summarized in the following table.

<u>Asset Class</u>	<u>Target Asset Allocation</u>	<u>Long-Term Expected Real Rate of Return</u>
Domestic equity	30.00%	6.44%
International equity	15.00%	7.40% - 9.42%
Domestic bonds	25.00%	2.02%
International bonds	10.00%	1.06% - 4.71%
Alternative investments	<u>20.00%</u>	3.75% - 10.47%
Total	<u>100.00%</u>	

Contributions

In addition to the implicit subsidy contribution, the Commission's policy is to contribute the actuarially determined contribution or amounts provided annually by the budget.

Discount Rate

The discount rate used to measure the net OPEB liability was 2.66%. The projection of cash flows used to determine the discount rate assumed that contributions from plan members will be made at the current contribution rate.

Based on those assumptions, the OPEB plan fiduciary net position was not projected to be available to make all projected future benefit payments of current plan members. As a result, a blended discount rate was used based on a combination of the investment rate of return of 6.5% through fiscal year 2029 and municipal bond rate of 2.09% thereafter (based on the average of indexes as of June 30, 2021, provided by Bond Buyer-20 Bond GO – 2.16%, S&P Municipal Bond 20-Year High Grade Rate Index – 2.18%, and Fidelity GO AA 20 Years – 1.92%).

Net OPEB Liability

The components of the net OPEB liability, measured as of June 30, 2021, were as follows (in thousands):

Total OPEB liability	\$ 32,688
Plan fiduciary net position	<u>(5,453)</u>
Net OPEB Liability	<u>\$ 27,235</u>
Plan fiduciary net position as a percentage of the total OPEB liability	16.68%

The fiduciary net position has been determined on the same basis used by the OPEB Plan. For this purpose, the Plan recognizes benefit payments when due and payable.

Changes in the Net OPEB Liability

The following summarizes the changes in the net OPEB liability for the past year (in thousands):

	<u>Increase (Decrease)</u>		
	Total OPEB Liability	Plan Fiduciary Net Position	Net OPEB Liability
	<u>(a)</u>	<u>(b)</u>	<u>(a) - (b)</u>
Balances, Beginning of Year	\$ 29,720	\$ 3,764	\$ 25,956
Changes for the year:			
Service cost	1,487	-	1,487
Interest	783	-	783
Contributions - employer	-	1,306	(1,306)
Net investment income	-	253	(253)
Differences between expected and actual experience	-	686	(686)
Changes in assumptions	1,254	-	1,254
Benefit payments	<u>(556)</u>	<u>(556)</u>	<u>-</u>
Net Changes	<u>2,968</u>	<u>1,689</u>	<u>1,279</u>
Balances, End of Year	<u>\$ 32,688</u>	<u>\$ 5,453</u>	<u>\$ 27,235</u>

Changes in assumptions reflect a change in the discount rate from 2.86% in 2020 to 2.66% in 2021.

Sensitivity of the Net OPEB Liability to Changes in the Discount Rate

The following presents the net OPEB liability, as well as what the net OPEB liability would be if it were calculated using a discount rate that is one percentage-point lower or one percentage-point higher than the current discount rate (in thousands):

1% Decrease	Current Discount Rate	1% Increase
<u>(1.66%)</u>	<u>(2.66%)</u>	<u>(3.66%)</u>
\$34,782	\$27,235	\$21,434

Sensitivity of the Net OPEB Liability to Changes in the Healthcare Cost Trend Rates

The following presents the net OPEB liability, as well as what the net OPEB liability would be if it were calculated using healthcare cost trend rates that are one percentage-point lower or one percentage-point higher than the current healthcare cost trend rates (in thousands):

1% Decrease	Current Healthcare Cost Trend Rates	1% Increase
<u>(6.25%)</u>	<u>(7.25%)</u>	<u>(8.25%)</u>
\$20,414	\$27,235	\$36,605

OPEB Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to OPEB

For the year ended June 30, 2021, the Commission recognized an OPEB expense of approximately \$2.5 million. At June 30, 2021, the Commission reported deferred outflows and inflows of resources related to OPEB from the following sources (in thousands):

	Deferred Outflows of <u>Resources</u>	Deferred Inflows of <u>Resources</u>
Net difference between projected and actual earnings on OPEB investments	\$ -	\$ (486)
Change in assumptions	<u>3,055</u>	<u>-</u>
Total	<u>\$ 3,055</u>	<u>\$ (486)</u>

Amounts reported as deferred outflows and inflows of resources related to OPEB will be recognized in OPEB expense as follows (in thousands):

<u>Year ended June 30:</u>	
2022	\$ 480
2023	480
2024	484
2025	458
2026	401
Thereafter	<u>266</u>
Total	<u>\$ 2,569</u>

17. Commitments and Contingencies

COVID-19

The COVID-19 outbreak in the United States (and across the globe) has resulted in economic uncertainties. There is considerable uncertainty around the duration and scope of the economic disruption. The extent of the impact of COVID-19 on our operational and financial performance will depend on certain developments, including the duration and spread of the outbreak, impact on individuals served by the Commission, employees, and vendors, all of which are uncertain and cannot be predicted. At this point, the extent to which COVID-19 may impact our financial condition or results of operations is uncertain.

Outstanding Legal Issues

On an ongoing basis, there are typically pending issues in which the Commission is involved. The Commission's management is of the opinion that the potential future settlement of these issues would not materially affect its financial statements taken as a whole.

Grants

Amounts received or receivable from grantor agencies are subject to audit and adjustment by grantor agencies, principally the federal government. Any disallowed claims, including amounts already collected, may constitute a liability of the applicable funds. The amount of expenditures which may be disallowed by the grantor cannot be determined at this time, although the Commission expects such amounts, if any, to be immaterial.

Sewer Overflow

The Springfield Water and Sewer Commission (the Commission) owns and operates a wastewater treatment collection system that includes Combined Sewer Overflows (CSO). The overarching regulatory mechanism is the recently issued United States Environmental Protection Agency (USEPA) National Pollutant Discharge Elimination System (NPDES) Permit No. MA0101613. CSOs are further regulated through provisions in a series of Administrative Orders (AO), most recently USEPA Administrative Order No. 14-007 and Amendment dated 12/23/2020.

In September 2014 the Commission was issued Administrative Order Docket No. 14-007 by the United States Environmental Protection Agency. The AO details acceptance of the Commission's comprehensive Integrated Wastewater Plan (IWP) that addresses all wastewater infrastructure as it relates to operation and maintenance, sustainable renewal, and regulatory compliance. The AO

specifically required the submittal of a work plan for the Phase 2 York Street Pump Station and River Crossing CSO Project by December 31, 2014, which was completed and submitted on time. In fiscal year 2020 the Commission began construction of the project utilizing the Construction Manager At Risk (CMAR) process under Massachusetts General Law Chapter 149A, which is continuing to progress. Additionally, the Commission has initiated other projects identified in the IWP but not identified in the AO that are part of our construction in progress. Projects address needs based on prioritization of risk and other key factors utilizing the Commission's asset management system. The new the final NPDES permit from the USEPA and MADEP for both CSOs and the Springfield Regional Wastewater Treatment Facility will necessitate investment in infrastructure to maintain compliance consistently. The Commission has obtained Water Infrastructure Finance and Innovation Act (WIFIA) and State Revolving Fund (SRF) funding to support projects over the next six years to obtain consistent compliance.

The Springfield Water and Sewer Commission owns and operates a drinking water filtration plant and system identified as PWS ID #1281000. The system has been in non-compliance with certain drinking water standards related to Disinfection Byproducts Rule (DPBR) for nine of the past ten calendar quarters. The Commission is addressing the non-compliance by evaluating a variety of design approaches to ensure future compliance. Capital investment at the treatment plant is underway on several projects being supported by the SRF program. Future projects have been identified and will be funded through the WIFIA and SRF program.

Workers Compensation Liability

The financial statements include an estimate of future benefit costs/settlements for employees currently receiving workers compensation benefits.

Self-Insurance

The Commission participates in the Hampshire County Group Insurance Trust to provide health insurance coverage to its employees. The Trust is funded by member assessments, which are calculated in a manner similar to commercial insurance premiums. As of June 30, 2021, the Trust contracted with an insurance carrier for excess liability coverage which takes effect when an individual claim exceeds \$275,000.

If the Trust were to experience a cash deficit, each member would be required to contribute additional funds. At June 30, 2021, according to the Trust's unaudited financial statements, after accruing an estimated liability for incurred but unreported claims of approximately \$4.8 million, the Trust was in a surplus position of approximately \$33 million.

18. Transactions with City of Springfield

Other than the retirement system contribution previously noted, the Commission's fiscal year 2021 transactions with the City consist primary of payments for Police Department services of approximately \$275,000 and approximately \$354,000 for retiree health insurance costs.

19. Wastewater Regional Operations Management

In August 2000, the Commission entered into an agreement with SUEZ Water, Inc. (formerly United Water, Springfield LLC) to operate the Commission's wastewater regional operations effective October 1, 2000 and for a term of 20 years. The Commission renewed this contract on October 1, 2020 for an additional 20 years with a 5-year renewal option with SUEZ Water

Environmental Services, Inc. (SUEZ Water). The pertinent conditions of the agreement are as follows:

- All assets remain the property of the Commission.
- Equipment/inventory used over the 20-year term is to be replaced/reimbursed by SUEZ Water.
- The Commission continues to control the customer billing process.
- The Commission agreed to incur a maximum of \$10.3 million for the initial capital improvements to the facility. These improvements became the property of the Commission upon acceptance of the work performed.
- SUEZ Water bills the Commission monthly for the cost of providing service and an administrative fee. The monthly cost as of June 2021 was approximately \$1.2 million.
- In September 2000, SUEZ Water reimbursed the Commission for approximately \$1.9 million of costs incurred in the privatization process. The Commission was repaying this amount through the monthly billing process. At June 30, 2021, the entire amount has been repaid.
- Under the contract, SUEZ Water must provide a guaranteed letter of credit to the Commission as security for operating performance and capital asset management. The letter of credit is adjusted annually. At June 30, 2021, the letter of credit was \$4 million.

20. Subsequent Events

Management has evaluated subsequent events through October 28, 2021, which is the date the financial statements were available to be issued.

Debt

Subsequent to June 30, 2021, the Commission has incurred the following additional debt:

<u>Purpose</u>	<u>Amount</u>	<u>Interest Rate(s)%</u>	<u>Issue Date</u>	<u>Maturity Date</u>	
WIFIA Loan	\$ 249,986,207	1.85%	08/19/21	03/15/52	
Massachusetts Clean Water Trust Interim note DW 20-01	\$ 15,000,000	0.00%	09/27/21	07/07/24	*
Massachusetts Clean Water Trust Interim note DW 21-03	\$ 10,089,000	0.00%	09/27/21	07/07/24	*

* Maturity date is flexible and will be determined when the balance is converted to a long-term note.

21. New Pronouncements

The Governmental Accounting Standards Board has issued Statement No. 87, *Leases*, effective for the Commission beginning with its fiscal year ending June 30, 2022. This statement establishes new reporting and disclosure requirements, including the recording of various operating leases in the financial statements. Management has not evaluated the effect of this standard will have on the financial statements.

SPRINGFIELD WATER AND SEWER COMMISSION

Required Supplementary Information
Schedule of Proportionate Share of the Net Pension Liability

(Unaudited)

(Amounts expressed in thousands)

Springfield Contributory Retirement System

<u>Fiscal Year</u>	<u>Measurement Date</u>	<u>Proportion of the Net Pension Liability</u>	<u>Proportionate Share of the Net Pension Liability</u>	<u>Covered Payroll</u>	<u>Proportionate Share of the Net Pension Liability as a Percentage of Covered Payroll</u>	<u>Plan Fiduciary Net Position Percentage of the Total Pension Liability</u>
June 30, 2021	December 31, 2020	7.69%	\$69,512	\$13,202	526.53%	33.26%
June 30, 2020	December 31, 2019	7.67%	\$70,653	\$13,178	536.14%	30.23%
June 30, 2019	December 31, 2018	8.10%	\$73,244	\$12,483	586.75%	27.20%
June 30, 2018	December 31, 2017	8.00%	\$69,365	\$12,357	561.34%	28.36%
June 30, 2017	December 31, 2016	8.24%	\$70,365	\$12,530	561.57%	25.92%
June 30, 2016	December 31, 2015	8.69%	\$72,326	\$13,215	547.30%	25.70%
June 30, 2015	December 31, 2014	8.67%	\$63,437	\$12,460	509.13%	28.83%

Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

See notes to the Commission's financial statements for summary of significant actuarial methods and assumptions.

See Independent Auditors' Report.

SPRINGFIELD WATER AND SEWER COMMISSION

Required Supplementary Information
Schedule of Pension Contributions

(Unaudited)

(Amounts expressed in thousands)

Springfield Contributory Retirement System

<u>Fiscal Year</u>	<u>Measurement Date</u>	<u>Actuarially Determined Contribution</u>	<u>Actuarially Determined Contribution</u>	<u>Contributions in Relation to the Actuarially Determined Contribution</u>	<u>Contribution Deficiency (Excess)</u>	<u>Covered Payroll</u>	<u>Contributions as a Percentage of Covered Payroll</u>
June 30, 2021	December 31, 2020	\$5,977	\$5,977	-	\$12,874	46.43%	
June 30, 2020	December 31, 2019	\$5,477	\$5,477	-	\$13,358	41.00%	
June 30, 2019	December 31, 2018	\$5,311	\$5,311	-	\$12,839	41.37%	
June 30, 2018	December 31, 2017	\$4,612	\$4,612	-	\$12,451	37.04%	
June 30, 2017	December 31, 2016	\$4,165	\$4,165	-	\$12,351	33.72%	
June 30, 2016	December 31, 2015	\$4,143	\$4,143	-	\$12,606	32.87%	
June 30, 2015	December 31, 2014	\$3,902	\$3,902	-	\$12,512	31.19%	

Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

See notes to the Commission's financial statements for summary of significant actuarial methods and assumptions.

See Independent Auditors' Report.

SPRINGFIELD WATER AND SEWER COMMISSION

Required Supplementary Information
Other Post-Employment Benefits (OPEB)
Schedule of Changes in the Net OPEB Liability

(Unaudited)

(Amounts expressed in thousands)

	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Total OPEB Liability					
Service cost	\$ 1,487	\$ 1,358	\$ 809	\$ 754	\$ 1,513
Interest	783	786	803	912	888
Differences between expected and actual experience	-	-	-	(3,365)	-
Changes in assumptions	1,254	400	2,797	1,778	(3,592)
Benefit payments, including refunds of member contributions	<u>(556)</u>	<u>(603)</u>	<u>(472)</u>	<u>(451)</u>	<u>(452)</u>
Net Change in Total OPEB Liability	2,968	1,941	3,937	(372)	(1,643)
Total OPEB Liability - Beginning	<u>29,720</u>	<u>27,779</u>	<u>23,842</u>	<u>24,214</u>	<u>25,857</u>
Total OPEB Liability - Ending (a)	\$ <u>32,688</u>	\$ <u>29,720</u>	\$ <u>27,779</u>	\$ <u>23,842</u>	\$ <u>24,214</u>
Plan Fiduciary Net Position					
Contributions - employer	\$ 1,306	\$ 1,103	\$ 1,672	\$ 1,451	\$ 717
Net investment income	253	226	141	52	44
Differences between expected and actual experience	686	(133)	22	-	-
Benefit payments, including refunds of member contributions	<u>(556)</u>	<u>(603)</u>	<u>(472)</u>	<u>(451)</u>	<u>(452)</u>
Net Change in Plan Fiduciary Net Position	1,689	593	1,363	1,052	309
Plan Fiduciary Net Position - Beginning	<u>3,764</u>	<u>3,171</u>	<u>1,808</u>	<u>756</u>	<u>447</u>
Plan Fiduciary Net Position - Ending (b)	\$ <u>5,453</u>	\$ <u>3,764</u>	\$ <u>3,171</u>	\$ <u>1,808</u>	\$ <u>756</u>
Net OPEB Liability - Ending (a-b)	\$ <u>27,235</u>	\$ <u>25,956</u>	\$ <u>24,608</u>	\$ <u>22,034</u>	\$ <u>23,458</u>

Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

See notes to the Commission's financial statements for summary of significant actuarial methods and assumptions.

See Independent Auditors' Report.

SPRINGFIELD WATER AND SEWER COMMISSION

Required Supplementary Information
Other Post-Employment Benefits (OPEB)
Schedules of the Net OPEB Liability, Contributions, and Investment Returns
(Unaudited)
(Amounts expressed in thousands)

Schedule of the Net OPEB Liability	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Total OPEB liability	\$ 32,688	\$ 29,720	\$ 27,779	\$ 23,842	\$ 24,214
Plan fiduciary net position	<u>(5,453)</u>	<u>(3,764)</u>	<u>(3,171)</u>	<u>(1,808)</u>	<u>(756)</u>
Net OPEB Liability	<u>\$ 27,235</u>	<u>\$ 25,956</u>	<u>\$ 24,608</u>	<u>\$ 22,034</u>	<u>\$ 23,458</u>
Plan fiduciary net position as a percentage of the total OPEB liability	16.68%	12.66%	11.42%	7.58%	3.12%
Covered employee payroll	\$ 13,380	\$ 13,200	\$ 12,458	\$ 12,433	\$ 12,097
Net OPEB liability as a percentage of covered employee payroll	203.55%	196.64%	197.53%	177.22%	193.92%
 Schedule of Contributions	 <u>2021</u>	 <u>2020</u>	 <u>2019</u>	 <u>2018</u>	 <u>2017</u>
Actuarially determined contribution	\$ 2,754	\$ 2,611	\$ 1,986	\$ 1,992	\$ 1,732
Contributions in relation to the actuarially determined contribution	<u>(1,306)</u>	<u>(1,103)</u>	<u>(1,672)</u>	<u>(1,451)</u>	<u>(717)</u>
Contribution Deficiency	<u>\$ 1,448</u>	<u>\$ 1,508</u>	<u>\$ 314</u>	<u>\$ 541</u>	<u>\$ 1,015</u>
Covered employee payroll	\$ 13,380	\$ 13,200	\$ 12,458	\$ 12,433	\$ 12,097
Contributions as a percentage of covered employee payroll	9.76%	8.36%	13.42%	11.67%	5.93%
 Schedule of Investment Returns	 <u>2021</u>	 <u>2020</u>	 <u>2019</u>	 <u>2018</u>	 <u>2017</u>
Annual money weighted rate of return, net of investment expense	13.35%	Unavailable	Unavailable	Unavailable	Unavailable

Schedules are intended to show information for 10 years. Additional years will be displayed as they become available.

See notes to the Commission's financial statements for summary of significant actuarial methods and assumptions.

See Independent Auditors' Report.

SPRINGFIELD WATER AND SEWER COMMISSION

Other Supplementary Information
 Schedule of Operating Expenses - Budget and Actual
 For the Year Ended June 30, 2021

	<u>Original</u> <u>Budget</u>	<u>Final</u> <u>Budget</u>	<u>Actual</u>	Variance Favorable <u>(Unfavorable)</u>
Expenses				
Salaries and wages	\$ 15,052,620	\$ 14,552,620	\$ 14,112,827	\$ 439,793
Employee benefits	9,948,615	10,448,615	10,261,841	186,774
Operations	31,721,617	31,221,617	26,720,714	4,500,903
Intergovernmental	668,400	668,400	626,879	41,521
Capital outlay	477,050	477,050	316,137	160,913
Other	642,543	642,543	571,912	70,631
Debt principal	12,861,139	12,861,139	12,853,297	7,842
Debt interest	<u>6,572,077</u>	<u>6,572,077</u>	<u>6,143,746</u>	<u>428,331</u>
Total	\$ <u>77,944,061</u>	\$ <u>77,444,061</u>	\$ <u>71,607,353</u>	\$ <u>5,836,708</u>

See Independent Auditors' Report and Notes to Other Supplementary Information.

Notes to Other Supplementary Information

Schedule of Operating Expenses – Budget and Actual

Budgetary Basis

The appropriation appearing on page 70 of the financial statements represents the operating budget of the Commission that was originally authorized in June 2020.

Budget/GAAP Reconciliation

The budgetary data is based upon accounting principles that differ from generally accepted accounting principles (GAAP). Therefore, in addition to the GAAP basis financial statements, the results of operations are presented in accordance with budgetary accounting principles to provide a meaningful comparison with budgetary data.

The following is a summary of adjustments made to the actual expenses to conform to the budgetary basis of accounting.

Operating expenses (GAAP basis)	\$ 63,792,232
Non-operating expenses (GAAP basis)	5,575,113
Reverse capital expenses appropriated in a prior fiscal year	(1,750,240)
Remove depreciation and amortization expense not budgeted for	(9,947,222)
Add long-term debt payments budgeted for	12,853,297
Reverse the effect of prior year and current year GAAP accruals of:	
Accounts payable and accrued payroll	778,745
Interest on long-term debt	(434,354)
Amortization of bond premium	1,002,987
Inventory adjustment	10,004
Accrued compensated absences	97,153
Net pension liability, net of deferrals	720,639
Net OPEB liability, net of deferrals	(1,199,555)
Accrued workers compensation	<u>108,554</u>
Budgetary Basis	<u>\$ 71,607,353</u>

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STATISTICAL SECTION

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

CONTENTS

Financial Trends

These schedules contain trend information to help the reader understand how the Commission’s financial performance and well-being have changed over time. These schedules are found on pages 76 and 77.

- Net Position by Component – Last Ten Fiscal Years
- Changes in Net Position – Last Ten Fiscal Years

Revenue Capacity

These schedules contain information to help the reader assess the factors affecting the Commission’s ability to generate revenue. These schedules are found on pages 78 through 82.

- Largest Users – Last Ten Fiscal Years
- Water: Supplied Billed and Accounted For. Sewer: Treated and Billed – Last Ten Fiscal Years
- Billings and Collections – Last Ten Fiscal Years
- Water and Sewer Rates Structure – Last Ten Fiscal Years

Debt Capacity

These schedules present information to help the reader assess the affordability of the Commission’s current levels of outstanding debt and the Commission’s ability to issue additional debt in the future. These schedules are found on pages 83 and 84.

- Commission Per Capita Debt – Last Ten Fiscal Years
- Debt Coverage – Last Ten Fiscal Years

Demographic and Economic Information

These schedules offer demographic and economic indicators to help the reader understand the environment within which the Commission’s financial activities take place. These schedules are found on pages 85 through 88.

- Population, Income and Employment – Last Ten Calendar Years
- Demographic and Economic Statistics – 2020 Calendar Year-End Summary
- Distribution of Customers by Account Type – Last Ten Fiscal Years
- Largest Private Employers – Current Year and Nine Years Prior

Operating and Capital Information

These schedules contain service and infrastructure data to help the reader understand how the information in the Commission’s financial statements relates to the services the Commission provides and the activities it performs. These schedules are found on pages 89 through 93.

- Divisional Breakdown of SWSC Funded (Budgeted) Positions – Last Ten Budget Years
- Water and Sewer Distribution System – Year-End 2021
- Insurance Coverage – 2021 – 2022
- Water and Sewer Sales – Last Ten Fiscal Years
- Capital Spending by Category – Last Ten Fiscal Years

Table 1
Net Position by Component
Last Ten Fiscal Years

	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>
Net investment in capital assets	\$ 181,781,706	\$ 159,325,678	\$ 152,176,660	\$ 135,716,523	\$ 140,096,489	\$ 124,851,184	\$ 113,624,261	\$ 124,060,618	\$ 104,126,159	\$ 92,474,640
Restricted	62,948,144	59,930,406	50,334,806	58,368,491	46,627,990	37,694,132	36,368,236	31,651,795	31,120,310	30,618,919
Unrestricted	<u>(101,372,436)</u>	<u>(88,297,650)</u>	<u>(66,299,071)</u>	<u>(69,189,511)</u>	<u>(62,830,249)</u>	<u>(36,200,649)</u>	<u>(29,816,125)</u>	<u>(42,378,183)</u>	<u>(17,512,709)</u>	<u>(8,663,848)</u>
Total Net Position	<u>\$ 143,357,414</u>	<u>\$ 130,958,434</u>	<u>\$ 136,212,395</u>	<u>\$ 124,895,503</u>	<u>\$ 123,894,230</u>	<u>\$ 126,344,667</u>	<u>\$ 120,176,372</u>	<u>\$ 113,334,230</u>	<u>\$ 117,733,760</u>	<u>\$ 114,429,711</u>

Table 2
Changes in Net Position
Last Ten Fiscal Years

	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>
Operating Revenues										
Water and sewer usage	\$ 90,076,439	\$ 80,720,589	\$ 78,569,778	\$ 76,365,206	\$ 70,958,566	\$ 68,826,361	\$ 67,168,792	\$ 63,889,847	\$ 61,904,588	\$ 61,726,370
Other	470,735	343,197	452,917	283,345	122,107	220,121	252,568	442,440	323,306	468,610
Total Operating Revenues	90,547,174	81,063,786	79,022,695	76,648,551	71,080,673	69,046,482	67,421,360	64,332,287	62,227,894	62,194,980
Operating Expenses										
Salaries and wages	13,793,770	14,552,351	13,592,558	13,415,407	13,196,653	13,210,801	12,845,594	12,897,208	12,924,669	12,891,991
Employee benefits	10,632,203	11,136,631	11,384,289	9,119,516	11,035,903	11,138,171	9,877,386	7,708,445	6,339,698	6,225,431
Operations	26,238,699	24,768,918	23,229,294	23,625,366	22,467,683	23,210,770	22,166,166	21,677,024	21,299,006	20,550,371
Intergovernmental	626,879	642,225	573,277	586,514	572,476	557,125	540,163	519,315	504,188	493,920
Capital outlay	2,066,377	2,095,482	1,945,358	1,213,715	1,209,614	1,285,389	991,480	1,384,494	1,028,998	1,424,314
Other	561,908	651,906	567,964	500,063	683,593	379,835	521,140	561,054	413,520	615,729
Total Operating Expenses	53,919,836	53,847,513	51,292,740	48,460,581	49,165,922	49,782,091	46,941,929	44,747,540	42,510,079	42,201,756
Depreciation and amortization	9,872,396	9,796,272	9,950,198	9,494,640	9,040,841	8,623,900	7,951,427	7,142,654	7,104,089	6,977,531
Operating Income	26,754,942	17,420,001	17,779,757	18,693,330	12,873,910	10,640,491	12,528,004	12,442,093	12,613,726	13,015,693
Nonoperating Revenues (Expenses)										
Interest income	144,676	2,155,814	2,245,158	768,883	233,262	15,564	15,027	13,709	16,180	19,618
Interest expense	(5,575,113)	(5,310,745)	(5,282,890)	(5,455,009)	(4,678,636)	(5,035,560)	(4,738,350)	(4,331,542)	(4,403,264)	(4,267,401)
Other	-	-	-	-	-	83,797	81,045	661,249	-	38,574
Total Nonoperating Revenues (Expenses), Net	(5,430,437)	(3,154,931)	(3,037,732)	(4,686,126)	(4,445,374)	(4,936,199)	(4,642,278)	(3,656,584)	(4,387,084)	(4,209,209)
Capital grants and contributions	6,447,059	896,618	525,858	808,112	156,154	792,512	1,643,475	-	1,227,663	1,737,571
Excess revenues before transfer requirement	27,771,564	15,161,688	15,267,883	14,815,316	8,584,690	6,496,804	9,529,201	8,785,509	9,454,305	10,544,055
Excess revenues used to fund deferrals	(15,372,584)	(20,415,649)	(3,950,991)	(13,814,043)	(11,035,127)	(328,509)	(2,687,059)	(13,185,039)	(6,150,256)	(4,746,678)
Change in Net Position	\$ 12,398,980	\$ (5,253,961)	\$ 11,316,892	\$ 1,001,273	\$ (2,450,437)	\$ 6,168,295	\$ 6,842,142	\$ (4,399,530)	\$ 3,304,049	\$ 5,797,377

**Table 3
Largest Users
Last Ten Fiscal Years**

Top 25 Customers	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Solutia, Inc.	\$ 7,973,048	\$ 7,487,202	\$ 7,766,295	\$ 7,768,760	\$ 7,550,467	\$ 7,367,101	\$ 7,368,394	\$ 7,957,100	\$ 6,431,271	\$ 6,111,495
Town of Agawam	4,130,774	3,458,927	2,831,206	3,319,151	3,009,713	3,007,522	2,952,071	2,944,831	2,896,569	3,204,264
Town of Longmeadow	2,303,274	1,874,712	1,534,103	1,745,160	1,620,606	1,324,505	1,306,863	1,362,849	1,364,753	1,337,546
Town of East Longmeadow	2,288,407	1,951,442	1,566,007	1,634,575	1,575,946	1,246,046	1,200,725	1,251,602	1,332,632	1,280,605
Town of West Springfield	2,140,579	1,928,184	2,118,275	1,643,124	1,558,939	1,477,728	1,809,349	1,610,031	1,402,042	1,520,135
Springfield Housing Authority	1,581,612	1,723,006	1,450,758	1,358,085	1,476,234	1,660,106	1,324,351	1,165,478	1,103,606	1,143,894
Bay State Medical Center	1,233,726	1,070,792	1,041,969	1,016,664	989,015	873,883	901,132	780,102	852,355	850,642
Town of Ludlow DPW	1,132,502	1,126,200	1,049,457	812,133	806,227	902,631	824,146	694,297	561,993	557,463
Springfield Gardens	936,864	-	-	-	-	-	-	-	-	-
City of Springfield/Schools	768,528	650,408	589,371	375,004	445,895	468,008	388,135	356,808	376,492	363,417
Catholic Health East-APSS	683,912	538,649	510,741	584,889	450,068	458,863	437,435	510,245	523,085	411,536
Smith & Wesson	614,281	499,274	601,044	536,624	584,161	492,162	441,301	344,034	431,508	289,926
Western New England University	613,821	541,692	461,747	482,811	512,172	491,598	509,482	395,069	369,050	331,600
Springfield College	483,619	486,058	459,934	397,675	448,211	495,982	442,041	432,570	454,455	393,046
Bergen Circle Apartments	425,891	-	-	-	-	-	-	-	-	-
Pynchon I Apartments, Ltd	406,080	375,253	562,059	291,895	235,502	250,244	243,464	227,474	231,734	235,228
Carando/Smithfield Foods	364,664	325,197	336,976	299,477	321,213	292,089	252,159	216,350	219,284	209,441
Colonial Estates	355,178	299,260	259,231	225,850	220,564	-	-	-	-	-
Friendly Ice Cream Corp	350,766	279,804	398,816	412,348	353,305	230,315	238,405	213,031	201,050	265,956
East Springfield Realty LLC	322,674	475,972	609,749	389,201	-	-	-	-	-	-
Spring Meadow Apartments	283,925	231,981	-	-	173,163	221,225	172,518	176,398	170,576	141,701
Allen Park 1 & 2	254,815	239,101	-	178,633	185,138	191,870	206,815	177,904	-	-
Mass Power	250,655	-	-	-	-	259,600	199,286	-	-	157,513
Town of Wilbraham	236,442	354,179	291,974	235,049	178,341	300,733	191,960	286,722	-	-
American International College	228,983	-	-	-	-	-	-	-	-	-
Blue Tarp/Davenport Companies	-	346,134	416,063	-	-	-	-	-	-	-
Unifirst Corporation	-	255,793	258,509	216,016	260,479	265,276	202,413	183,622	190,246	170,994
Park Tenants Assoc., Inc.	-	239,287	220,785	214,785	-	-	183,227	-	-	-
Rayes (firmly Related Springfield Assoc.)	-	221,196	281,948	247,736	438,962	421,723	338,939	292,262	284,248	261,429
Springfield Technical Comm College	-	-	205,833	-	-	183,651	-	-	-	-
Related Springfield Associates LP	-	-	185,506	-	-	-	-	-	-	-
Pynchon II Apartments, Ltd.	-	-	-	256,756	230,128	198,254	205,079	183,432	-	-
Armory Commons	-	-	-	176,052	188,622	206,610	182,313	-	-	-
Spfld 164/Belmont LLC (firmly Cardaropoli, Attilio)	-	-	-	-	227,042	-	-	203,646	211,948	210,895
Taylor Consulting & Contracting	-	-	-	-	-	-	-	329,687	374,304	317,496
Styrolution America, LLC	-	-	-	-	-	-	-	186,233	600,479	1,009,955
Mass Municipal Wholesale	-	-	-	-	-	-	-	-	435,073	276,108
Hampden County Sheriff's Dept.	-	-	-	-	-	-	-	-	347,398	327,756
City of Springfield/Parks Dept	-	-	-	-	-	-	-	-	206,635	-
Total	\$ 30,365,020	\$ 26,979,703	\$ 26,008,356	\$ 24,818,453	\$ 24,040,113	\$ 23,287,725	\$ 22,522,003	\$ 22,481,777	\$ 21,572,786	\$ 21,380,041
Percent of Total Operating Revenue	33%	33%	33%	34%	34%	34%	33%	35%	35%	37%

Source: Commission Billing Records

Table 4
Water: Supplied Billed and Accounted For
Sewer: Treated and Billed
Last Ten Fiscal Years

Water Sales (1000 gals)	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>
Residential	3,976,127	3,739,865	3,674,248	3,881,968	3,974,963	3,993,954	3,904,169	3,891,966	4,228,945	3,950,102
Commercial	923,456	951,713	1,074,234	1,047,640	1,020,339	1,043,817	995,680	1,005,578	1,075,718	1,085,939
Industrial	249,921	213,230	230,311	267,357	246,874	301,338	332,947	292,994	305,685	351,324
Municipal	128,660	133,021	110,883	111,240	124,078	119,125	99,915	98,405	125,987	118,816
Solutia contract	1,684,109	1,582,382	1,889,882	1,937,904	2,052,774	2,133,279	2,176,832	2,764,977	2,335,635	2,806,380
Town contracts	<u>2,993,661</u>	<u>2,702,195</u>	<u>2,369,513</u>	<u>2,533,247</u>	<u>2,720,622</u>	<u>2,938,450</u>	<u>2,940,024</u>	<u>2,846,092</u>	<u>3,026,692</u>	<u>3,085,764</u>
Total water billed	9,955,934	9,322,406	9,349,071	9,779,356	10,139,650	10,529,963	10,449,567	10,900,012	11,098,662	11,398,325
Water supplied	11,513,010	11,210,150	10,576,950	10,802,240	11,165,680	11,648,180	11,230,750	11,432,110	11,917,910	12,054,950
% Accounted for	86.5%	83.2%	88.4%	90.5%	90.8%	90.4%	93.0%	95.3%	93.1%	94.6%
Sewer Sales (1000 gals)	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>
Residential	3,663,476	3,443,074	3,422,186	3,521,594	3,672,325	3,700,999	3,639,573	3,623,135	3,853,056	3,685,012
Commercial	502,741	529,387	618,825	578,290	549,491	555,334	532,273	536,765	545,418	557,926
Industrial	146,841	146,567	168,098	182,626	182,541	175,459	164,419	161,525	177,979	166,274
Municipal	40,363	46,422	53,692	53,868	61,530	62,876	56,562	53,819	55,634	56,434
Food Service	24,234	28,072	33,053	34,875	35,447	36,666	36,320	36,333	39,310	44,412
Medical	133,656	127,544	132,460	142,256	137,163	148,388	137,709	150,742	168,482	172,983
Solutia contract	1,439,633	1,243,311	1,484,451	1,473,494	1,628,296	1,667,604	1,760,526	1,947,061	1,915,526	2,081,838
Town contracts	<u>3,714,734</u>	<u>4,105,485</u>	<u>5,355,536</u>	<u>4,130,910</u>	<u>3,527,632</u>	<u>3,773,133</u>	<u>4,160,382</u>	<u>4,424,605</u>	<u>4,076,072</u>	<u>4,961,971</u>
Total sewer billed	9,665,678	9,669,862	11,268,301	10,117,913	9,794,425	10,120,459	10,487,764	10,933,985	10,831,477	11,726,850
Wastewater treated	12,364,685	13,535,850	17,321,557	13,354,455	11,972,147	12,325,910	13,512,560	14,417,490	13,320,850	15,981,760
% Accounted for *	78.2%	71.4%	65.1%	75.8%	81.8%	82.1%	77.6%	75.8%	81.3%	73.4%

Source: Commission Billing System

* Unaccounted for wastewater includes inflow and infiltration from precipitation and groundwater. The combined sewer system within Springfield collects surface water runoff from precipitation and snow melt that accounts for the majority of the unaccounted wastewater treated.

Table 5
Billings and Collections
Last Ten Fiscal Years

	<u>2021</u>	<u>2020**</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015*</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>
Billings	\$ 87,843,556	\$ 77,449,116	\$ 68,418,378	\$ 71,714,561	\$ 69,951,215	\$ 66,828,449	\$ 64,477,845	\$ 62,114,921	\$ 60,357,697	\$ 58,745,953
Adjustments	700,973	121,199	362,899	313,365	345,814	(281,823)	(767,583)	(304,095)	164,551	(2,770,914)
Write-offs	<u>10,084</u>	<u>24,360</u>	<u>255,550</u>	<u>4,025</u>	<u>104,364</u>	<u>99,880</u>	<u>88,395</u>	<u>80,900</u>	<u>158,965</u>	<u>132,792</u>
Net Billings	\$ 88,554,613	\$ 77,594,675	\$ 69,036,827	\$ 72,031,951	\$ 70,401,393	\$ 66,646,506	\$ 63,798,657	\$ 61,891,726	\$ 60,681,213	\$ 56,107,831
Payments	\$ 86,775,345	\$ 77,760,365	\$ 69,171,649	\$ 71,165,499	\$ 71,246,016	\$ 66,670,637	\$ 63,740,688	\$ 61,627,375	\$ 60,129,265	\$ 57,614,541
Collection rate	98.8%	100.4%	101.1%	99.2%	101.9%	100.0%	99.9%	99.6%	99.1%	102.7%
Ending Receivables (before accruals)	\$ 6,097,153	\$ 4,327,967	\$ 4,518,017	\$ 4,164,095	\$ 3,301,668	\$ 4,249,281	\$ 4,374,664	\$ 4,405,090	\$ 4,221,672	\$ 3,828,921

*FY 2015 adjusted during FY 2016

**FY 2020 adjusted during FY 2021

Source: Commission Billing System

Table 6
Water and Sewer Rate Structure
Last Ten Fiscal Years

Water Rates (per 1000 gals)	<u>2022</u>	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>
Residential	\$5.60	\$5.29	\$4.84	\$4.30	\$4.02	\$3.86	\$3.72	\$3.56	\$3.34	\$3.21
Commercial	\$5.60	\$5.29	\$4.84	\$4.30	\$4.02	\$3.86	\$3.72	\$3.56	\$3.34	\$3.21
Municipal	\$4.18	\$3.96	\$3.61	\$3.21	\$2.99	\$2.87	\$2.77	\$2.65	\$2.49	\$2.39
Industrial	\$4.18	\$3.96	\$3.61	\$3.21	\$2.99	\$2.87	\$2.77	\$2.65	\$2.49	\$2.39
Solutia contract	\$4.10	\$3.88	\$3.54	\$3.10	\$2.82	\$2.66	\$2.51	\$2.35	\$2.14	\$2.01
Town contracts	\$1.66	\$1.34	\$1.73	\$1.49	\$1.72	\$1.53	\$1.18	\$1.09	\$1.19	\$1.14
Residential Water % Change	5.8%	9.4%	12.4%	7.0%	4.2%	4.0%	4.5%	6.4%	4.2%	N/A
Sewer Rates (per 1000 gals)	<u>2022</u>	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>
Residential	\$8.85	\$8.36	\$7.63	\$7.11	\$6.59	\$6.34	\$6.10	\$5.80	\$5.11	\$4.87
Commercial	\$9.73	\$9.20	\$8.40	\$7.82	\$7.25	\$6.97	\$6.70	\$6.38	\$5.61	\$5.35
Industrial	\$10.61	\$10.03	\$9.16	\$8.53	\$7.91	\$7.61	\$7.30	\$6.95	\$6.12	\$5.84
Municipal	\$8.85	\$8.36	\$7.63	\$7.11	\$6.59	\$6.34	\$6.10	\$5.80	\$5.11	\$4.87
Food Service	\$11.51	\$10.87	\$9.93	\$9.25	\$8.57	\$8.24	\$7.91	\$7.54	\$6.64	\$6.32
Medical	\$9.73	\$9.20	\$8.40	\$7.82	\$7.25	\$6.97	\$6.70	\$6.38	\$5.61	\$5.35
Solutia contract	\$1.29	\$1.34	\$1.26	\$1.20	\$1.18	\$1.22	\$1.11	\$1.10	\$0.99	\$1.08
Town contracts	\$1.29	\$1.34	\$1.26	\$1.20	\$1.18	\$1.22	\$1.11	\$1.10	\$0.99	\$1.08
Residential Sewer % Change	5.9%	9.5%	7.3%	7.9%	4.0%	3.9%	5.1%	13.6%	4.9%	N/A

Water Rates (per 100 CF)	<u>2022</u>	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>
Residential	\$4.19	\$3.96	\$3.62	\$3.22	\$3.01	\$2.89	\$2.78	\$2.66	\$2.50	\$2.40
Commercial	\$4.19	\$3.96	\$3.62	\$3.22	\$3.01	\$2.89	\$2.78	\$2.66	\$2.50	\$2.40
Municipal	\$3.13	\$2.96	\$2.70	\$2.40	\$2.24	\$2.15	\$2.07	\$1.98	\$1.86	\$1.79
Industrial	\$3.13	\$2.96	\$2.70	\$2.40	\$2.24	\$2.15	\$2.07	\$1.98	\$1.86	\$1.79
Solutia contract (per 100 CF)**	\$3.07	\$2.90	\$2.65	\$2.32	\$2.11	\$1.99	\$1.88	\$1.76	\$1.60	\$1.50
Town contracts (per million gals)*	\$1,656.62	\$1,340.94	\$1,727.00	\$1,491.03	\$1,717.86	\$1,526.61	\$1,178.93	\$1,089.71	\$1,186.59	\$1,141.50
Residential Water % Change	5.8%	9.4%	12.4%	7.0%	4.2%	4.0%	4.5%	6.4%	4.2%	N/A
Sewer Rates (per 100 CF)	<u>2022</u>	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>
Residential	\$6.62	\$6.25	\$5.71	\$5.32	\$4.93	\$4.74	\$4.56	\$4.34	\$3.82	\$3.64
Commercial	\$7.28	\$6.88	\$6.28	\$5.85	\$5.42	\$5.21	\$5.01	\$4.77	\$4.20	\$4.00
Industrial	\$7.94	\$7.50	\$6.85	\$6.38	\$5.92	\$5.69	\$5.46	\$5.20	\$4.58	\$4.37
Municipal	\$6.62	\$6.25	\$5.71	\$5.32	\$4.93	\$4.74	\$4.56	\$4.34	\$3.82	\$3.64
Food Service	\$8.61	\$8.13	\$7.43	\$6.92	\$6.41	\$6.16	\$5.92	\$5.64	\$4.97	\$4.73
Medical	\$7.28	\$6.88	\$6.28	\$5.85	\$5.42	\$5.21	\$5.01	\$4.77	\$4.20	\$4.00
Solutia contract (per million gals)	\$1,288.93	\$1,340.94	\$1,138.91	\$1,197.77	\$1,145.39	\$1,060.86	\$1,108.27	\$1,099.26	\$993.00	\$1,076.52
Town contracts (per million gals)	\$1,288.93	\$1,340.94	\$1,138.91	\$1,197.77	\$1,145.39	\$1,060.86	\$1,108.27	\$1,099.26	\$993.00	\$1,076.52
Residential Sewer % Change	5.9%	9.5%	7.3%	7.9%	4.0%	3.9%	5.1%	13.6%	4.9%	N/A
Average Combined Rate Increase	5.9%	9.4%	9.9%	7.4%	4.1%	4.0%	4.8%	10.0%	4.6%	N/A

Source: Commission's adopted Rules and Regulations Chapter 5

(continued)

**Table 6
Water and Sewer Rate Structure
Last Ten Fiscal Years**

(continued)

Sewer Contract Rates (per million gals)	<u>2022</u>	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>
Agawam	\$1,537.52	\$1,592.36	\$1,553.44	\$1,105.93	\$1,431.59	\$1,503.64	\$1,375.92	\$1,323.70	\$1,257.70	\$1,342.30
Longmeadow	\$1,145.45	\$1,211.67	\$1,140.41	\$880.54	\$1,072.83	\$1,108.53	\$959.04	\$996.43	\$905.70	\$981.02
Chicopee	\$699.60	\$744.50	\$663.23	\$557.05	\$652.23	\$631.46	\$577.91	\$590.72	\$544.06	\$595.67
E. Longmeadow	\$1,082.41	\$1,130.51	\$1,084.04	\$802.57	\$991.09	\$1,055.03	\$945.34	\$922.99	\$836.94	\$1,014.96
Ludlow	\$1,585.33	\$1,677.68	\$1,611.88	\$1,195.07	\$1,488.14	\$1,746.10	\$1,426.13	\$1,255.64	\$951.57	\$1,158.34
W. Springfield	\$1,520.51	\$1,694.06	\$1,482.35	\$1,168.17	\$1,194.23	\$1,253.45	\$1,143.72	\$1,312.10	\$1,073.14	\$1,011.77
Wilbraham	\$1,339.82	\$1,479.57	\$1,343.92	\$1,115.76	\$1,281.69	\$1,116.32	\$1,061.65	\$1,103.27	\$1,060.60	\$1,060.75
Springfield	\$1,060.98	\$1,235.96	\$1,207.57	\$914.55	\$1,123.16	\$1,178.85	\$1,087.99	\$1,029.08	\$968.49	\$1,087.95
Solutia / Nova	\$1,230.25	\$1,182.67	\$1,006.25	\$936.01	\$1,030.71	\$988.48	\$901.90	\$1,032.79	\$887.57	\$886.90
Friendly	\$10,717.54	\$13,202.84	\$9,094.13	\$11,608.00	\$12,232.93	\$10,498.96	\$7,752.63	\$8,171.27	\$7,286.10	\$7,504.95
Totals	\$1,288.93	\$1,340.94	\$1,263.53	\$1,197.77	\$1,175.82	\$1,217.98	\$1,108.27	\$1,099.26	\$993.00	\$1,076.52

* FY 2022 Town rates per million gallons are estimated

** Solutia Contract had two separate rates for FY 2019. 7/1/18 - 12/31/18 rate was \$2.32; 1/1/19 - 6/30/19 rate was \$2.35

Solutia contract (per million gals)***	\$1,288.93	\$1,340.94	\$1,263.53	\$1,197.77	\$1,175.82	\$1,217.98	\$1,108.27	\$1,099.26	\$993.00	\$1,076.52
Town contracts (per million gals)***	\$1,288.93	\$1,340.94	\$1,263.53	\$1,197.77	\$1,175.82	\$1,217.98	\$1,108.27	\$1,099.26	\$993.00	\$1,076.52

*** Changes in FY 2015 & FY 2016 Town & Solutia Contract rates are due to estimates changing to actuals

Table 7
Commission Per Capita Debt
Last Ten Fiscal Years

	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>
Outstanding Principal ⁽⁵⁾	\$ 237,373,443	\$ 196,877,365	\$ 185,252,698	\$ 198,021,678	\$ 185,598,197	\$ 170,821,830	\$ 179,270,356	\$ 136,479,114	\$ 121,778,599	\$ 126,004,616
City Springfield Population	155,929	153,060	153,060	154,341	154,758	153,703	153,991	153,060	153,060	153,060
Town of Ludlow Population ⁽¹⁾	21,119	21,233	21,472	21,502	21,502	21,103	21,103	21,103	21,103	21,103
Per Capita Debt	1,341	1,130	1,061	1,126	1,053	977	1,024	784	699	723
City of Springfield:										
Total Personal Income ⁽²⁾⁽³⁾	\$ 3,537,093,436	\$ 2,288,247,000	\$ 2,288,247,000	\$ 2,210,367,000	\$ 2,109,884,000	\$ 2,084,349,000	\$ 2,047,862,000	\$ 2,010,532,000	\$ 1,968,503,060	\$ 2,063,146,000
Town of Ludlow:										
Estimated Total Personal Income ⁽³⁾⁽⁴⁾	\$ 583,371,332	\$ 583,371,332	\$ 583,371,332	\$ 583,371,332	\$ 583,371,332	\$ 583,371,332	\$ 583,371,332	\$ 583,371,332	\$ 583,371,332	\$ 583,371,332
Debt per Personal Income	5.76%	6.86%	6.45%	7.09%	6.89%	6.40%	6.81%	5.26%	4.77%	4.76%

Source:

(1) from Massachusetts Department of Revenue

(2) from City of Springfield Annual Comprehensive Financial Report

(3) Per capita income data from U.S. Census Bureau, American Community Survey

(4) Estimated TPI was calculated using Ludlow population and estimated per capita income for zip code 01056

(5) Approximately 10% of the debt will be supported by the Wholesale customers

Table 8
Debt Coverage
Last Ten Fiscal Years

	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>
Operating Revenue										
Beginning revenue cash	\$ 36,731,290	\$ 29,213,733	\$ 30,858,423	\$ 23,543,264	\$ 35,282,607	\$ 40,949,346	\$ 24,945,725	\$ 28,447,735	\$ 29,905,720	\$ 24,545,452
Deposits to revenue acct	89,226,889	81,689,505	81,361,548	74,568,571	73,080,877	67,844,909	66,470,471	65,134,734	62,750,659	60,793,884
Total cash receipts	\$ 125,958,179	\$ 110,903,238	\$ 112,219,971	\$ 98,111,835	\$ 108,363,484	\$ 108,794,255	\$ 91,416,196	\$ 93,582,469	\$ 92,656,379	\$ 85,339,336
Transfers										
To operating accts	\$ 51,020,111	\$ 51,655,361	\$ 51,368,058	\$ 42,859,242	\$ 46,681,334	\$ 44,787,949	\$ 44,173,446	\$ 40,571,463	\$ 40,666,127	\$ 39,250,965
To (from) debt service reserve	(6,046)	(7,598,820)	(638,043)	19,186	1,247,387	1,223,597	477,261	(13,242)	(236,031)	994,454
Total transfers	\$ 51,014,065	\$ 44,056,541	\$ 50,730,015	\$ 42,878,428	\$ 47,928,721	\$ 46,011,546	\$ 44,650,707	\$ 40,558,221	\$ 40,430,096	\$ 40,245,419
Net Revenue	\$ 74,944,114	\$ 66,846,697	\$ 61,489,956	\$ 55,233,407	\$ 60,434,763	\$ 62,782,709	\$ 46,765,489	\$ 53,024,248	\$ 52,226,283	\$ 45,093,918
Debt Service Requirement	\$ 18,587,675	\$ 18,023,355	\$ 17,191,399	\$ 16,897,703	\$ 15,348,323	\$ 12,837,884	\$ 10,689,535	\$ 10,500,118	\$ 9,886,089	\$ 9,779,096
Debt Coverage	403.2%	370.9%	357.7%	326.9%	393.8%	489.0%	437.5%	505.0%	528.3%	461.1%
Alternate (no begin balance)	205.6%	208.8%	178.2%	187.5%	163.9%	170.1%	204.1%	234.1%	225.8%	210.1%
125% of debt service required	\$ 23,234,594	\$ 22,529,194	\$ 21,489,249	\$ 21,122,129	\$ 19,185,404	\$ 16,047,355	\$ 13,361,919	\$ 13,125,148	\$ 12,357,611	\$ 12,223,870
140% of debt service required	\$ 26,022,745	\$ 25,232,697	\$ 24,067,959	\$ 23,656,784	\$ 21,487,652	\$ 17,973,038	\$ 14,965,349	\$ 14,700,165	\$ 13,840,525	\$ 13,690,735

Source: Commission Accounting System

Table 9
Population, Income, and Employment
Last Ten Calendar Years

	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>
United States										
Total Personal Income (\$000)	\$20,564,900,000	\$18,599,062,000	\$17,813,035,000	\$16,820,250,000	\$16,115,630,000	\$15,324,108,725	\$14,708,582,165	\$14,151,427,000	\$13,401,868,693	\$12,981,740,848
Per Capita Income (\$)	\$62,090	\$56,663	\$54,446	\$51,640	\$49,831	\$47,665	\$46,129	\$44,765	\$42,693	\$41,663
Population	331,209,000	328,239,523	327,167,434	325,719,178	323,405,935	321,467,160	318,857,056	316,128,839	313,914,040	311,591,917
Employment	147,795,000	157,538,000	200,746,000	196,132,200	193,368,900	190,195,400	185,798,800	182,278,200	179,603,300	175,834,700
New England										
Total Personal Income (\$000)	\$1,098,140,600	\$1,049,299,200	\$1,008,436,200	\$952,330,566	\$915,452,998	\$867,004,548	\$831,543,055	\$801,066,757	\$763,754,701	\$740,176,699
Per Capita Income (\$)	\$73,961	\$70,683	\$67,893	\$64,303	\$62,033	\$58,863	\$56,642	\$54,797	\$52,446	\$51,074
Population	14,847,468	14,845,063	14,853,290	14,810,001	14,727,573	14,729,289	14,680,722	14,618,806	14,562,704	14,492,360
Employment	10,783,355	10,127,365	10,032,617	9,886,800	9,777,804	9,571,509	9,378,271	9,217,266	9,125,273	9,002,996
Massachusetts										
Total Personal Income (\$000)	\$549,564,800	\$516,713,600	\$494,764,600	\$463,930,693	\$444,812,504	\$414,723,656	\$399,204,457	\$383,152,205	\$363,459,345	\$353,228,041
Per Capita Income (\$)	\$79,721	\$74,967	\$71,683	\$67,630	\$65,186	\$61,032	\$59,182	\$57,248	\$54,687	\$53,261
Population	6,893,574	6,892,503	6,902,149	6,859,819	6,823,721	6,795,177	6,745,408	6,692,824	6,646,144	6,587,536
Employment	3,760,335	4,936,751	4,872,851	4,777,678	4,710,176	4,542,723	4,428,065	4,322,176	4,250,566	4,168,887
Western Massachusetts ⁽¹⁾										
Total Personal Income (\$000)	(2)	\$44,927,459	\$43,647,850	\$41,889,827	\$40,025,022	\$39,196,508	\$36,463,080	\$37,085,939	\$35,830,064	\$33,513,709
Per Capita Income (\$)	(2)	\$54,635	\$52,647	\$50,551	\$48,365	\$47,201	\$44,002	\$44,805	\$43,311	\$40,689
Population	(2)	822,326	829,072	828,667	827,568	830,411	828,677	827,721	827,274	823,662
Employment	(2)	503,002	499,052	494,421	493,325	478,874	470,214	465,367	454,490	449,577

(1) Includes Hampden, Hampshire, Franklin, Berkshire Counties

Source: Bureau of Economic Analysis
Bureau of the Census
Boston Water and Sewer Commission Comprehensive Annual Financial Report

(2) 2020 information is not presented as it is unavailable

Table 10
Demographic and Economic Statistics
2020 Calendar Year End Summary

	Springfield, MA ⁽¹⁾	United States ⁽²⁾
ECONOMY		
Unemployment Rate	9.2%	8.1%
Recent Job Growth *	-7.9%	-4.0%
3 Year Average	-2.5%	-1.7%
5 Year Average	-0.6%	-0.1%
Future Job Growth *	1.1%	(3)**
Sales Tax	6.25%	0.0%
Income Per Capita	\$22,684	\$35,672
Household Income (Median)	\$44,596	\$65,712
HOUSEHOLD INCOME (3)**		
Income less than 10K	11.6%	5.8%
Income between 10K and 15K	10.5%	4.0%
Income between 15K and 25K	10.7%	8.3%
Income between 25K and 35K	10.7%	8.4%
Income between 35K and 50K	11.9%	11.9%
Income between 50K and 75K	14.2%	17.4%
Income between 75K and 100K	12.0%	12.8%
Income between 100K and 150K	13.3%	15.7%
Income between 150K and 200K	3.3%	7.2%
Income greater than 200K	1.8%	8.5%
POPULATION BY OCCUPATION (3)**		
Management, business, science, and arts occupations	29.9%	39.9%
Service occupations	26.9%	17.7%
Sales and office occupations	19.0%	20.4%
Natural resources, construction, and maintenance occupations	6.0%	8.8%
Production, transportation, and material moving occupations	18.2%	13.2%

* Growth between 2020 and July 2021

(1) Source: U.S. Census Bureau

(2) Source: Bureau of Labor Statistics

(3)** Source data from U.S. Census Bureau unavailable for 2020

Table 11
Distribution of Customers by Account Type
Last Ten Fiscal Years

Water Accounts	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>
Residential	40,621	40,532	40,462	40,394	40,358	40,303	40,226	40,245	40,274	40,242
Commercial	2,200	2,187	2,183	2,175	2,174	2,175	2,186	2,184	2,190	2,184
Industrial	85	84	85	86	87	88	91	92	92	95
Municipal	192	185	183	169	162	158	154	147	147	149
Solutia contract	25	25	25	25	23	24	24	22	23	23
Town contracts	6	6	6	6	6	6	6	6	6	6
Totals	43,129	43,019	42,944	42,855	42,810	42,754	42,687	42,696	42,732	42,699
% Change	0.3%	0.2%	0.2%	0.1%	0.1%	0.2%	0.0%	-0.1%	0.1%	N/A
Sewer Accounts	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>
Residential	35,610	35,483	35,412	35,347	35,298	35,243	35,181	35,205	35,224	35,220
Commercial	1,702	1,705	1,702	1,695	1,689	1,689	1,701	1,699	1,707	1,706
Industrial	100	99	100	101	102	104	104	105	105	107
Municipal	106	105	102	99	96	97	97	92	92	95
Food Service	61	62	61	65	67	71	70	70	70	72
Medical	19	19	19	19	19	19	19	19	20	20
Solutia contract	1	1	1	1	1	1	1	1	1	1
Town contracts	6	6	6	6	6	6	6	6	6	8
Totals	37,605	37,480	37,403	37,333	37,278	37,230	37,179	37,197	37,225	37,229
% Change	0.3%	0.2%	0.2%	0.1%	0.1%	0.1%	0.0%	-0.1%	0.0%	N/A

Source: Commission Billing System

**Table 12
Largest Private Employers
Current Year and Nine Years Prior**

<u>Employer</u>	<u>Nature of Business</u>	<u>2021</u>			<u>2012</u>		
		<u>Employees</u>	<u>Rank</u>	<u>Percentage of Total City Employment</u>	<u>Employees</u>	<u>Rank</u>	<u>Percentage of Total City Employment</u>
BayState Health Systems	Healthcare	8,859	1	13.3%	8,723	1	13.1%
Massachusetts Mutual Financial Group	Insurance	4,296	2	6.5%	3,900	2	5.9%
Sisters of Providence	Healthcare	3,043	3	4.6%	2,200	4	3.3%
Smith & Wesson	Firearms	2,006	4	3.0%	1,300	5	2.0%
MGM Springfield	Entertainment	1,034	5	1.6%	n/a	n/a	n/a
Big Y	Grocery	1,013	6	1.5%	2,932	3	4.4%
Western New England University	Education	855	7	1.3%	860	7	1.3%
Springfield Technical Community College	Education	782	8	1.2%	743	8	1.1%
Springfield College	Education	617	9	0.9%	640	9	1.0%
American International College	Education	614	10	0.9%	n/a	n/a	n/a
Center for Human Development	Social Services	n/a	n/a	n/a	1,139	6	1.7%
Verizon	Utility	n/a	n/a	n/a	270	10	0.4%
		23,119		34.8%	22,707		34.2%

Source: City of Springfield June 30, 2021 Comprehensive Annual Financial Report
Official Statements, Massachusetts Department of Labor and Workforce Development

Table 13
Divisional Breakdown of SWSC Funded (Budgeted) Positions
Last Ten Budget Years

	<u>2022</u>	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>
Administration	13	11	11	9	8	7	7	8	8	9
General Accounting	4	4	4	4	4	4	4	4	4	4
Customer Service	8	8	8	8	8	8	8	8	8	8
Information Systems	11	10	10	10	10	7	6	5	5	5
Asset Management	3	3	3	4	4	4	0	0	0	0
Engineering	25	15	19	19	19	21	26	24	23	22
Operations Management Water	2	3	3	4	3	3	3	3	3	3
SERTS	0	0	0	0	1	1	0	0	1	1
Water Supply Administration	5	4	4	3	3	3	4	4	4	4
Ludlow Reservoir	5	5	6	6	6	6	7	6	6	6
Provin Mountain	9	9	9	9	9	9	9	8	8	8
West Parish Filters	30	26	31	36	37	35	35	36	41	41
Watershed Management	2	1	2	1	1	1	2	2	2	3
Borden Brook	3	4	4	3	3	3	0	0	0	0
Laboratory	6	5	5	5	5	5	5	5	5	5
Cross Connection Control	5	4	5	4	4	4	5	5	5	5
Warehouse Management	6	6	4	4	4	4	4	4	5	5
Customer Field Service	8	9	7	6	5	5	5	6	6	7
Meters & Field Service	21	21	21	22	22	22	21	22	21	23
Water Quality	14	14	16	13	13	14	17	18	20	20
Water Distribution	32	32	34	35	36	35	34	33	34	31
Fleet Management	2	2	2	0	0	0	0	0	0	0
WW Operations Management	2	2	2	1	1	1	1	1	1	1
Sewer Collection Services	33	33	38	41	39	39	38	36	28	29
Industrial Pretreatment	3	2	2	2	2	2	2	2	2	2
FOG	0	0	1	1	1	1	2	2	2	3
Wastewater Treatment	0	0	0	0	0	0	0	1	1	1
Totals	252	233	251	250	248	244	245	243	243	246

Source: Commission Budget Documents

Table 14
Water and Sewer Distribution System
Year-End 2021 Summary

Water Distribution System

	<u>Appurtenances</u>		<u>Water Main City Wide</u>
Hydrants	6,218	Total Linear Feet	3,058,810
Valves	19,771	Total Linear Miles	579
Meters	46,689	Water Booster Pump Stations	5

Sewer Collection System

	<u>Appurtenances</u>		<u>Sewer Pipes City Wide</u>
CSO Regulator Structures & Outfalls	24	Total Linear Feet	2,500,654
Manholes	11,511	Combined Sewer Miles	150
Regulators	23	Separated Sewer Miles	323
Flood Control Gates	42	Total Sewer Miles	473
		Sewage Pumping Stations	27
		Flood Control Pumping Stations	7
		Active CSO's	24

Source: Commission's GIS System

Table 15
Insurance Coverage
2021 - 2022

<u>Provider</u>	<u>Policy Period</u>	<u>Type of Coverage</u>	<u>Liability Limits</u>	<u>Annual Premium</u>
ACE American Insurance Company	4/2/2021 - 4/2/2022	Property	\$100,000,000	\$240,000
Vantapro Specialty Insurance Co.	4/2/2021 - 4/2/2022	Special Primary/Excess Liability	\$11,000,000/\$13,000,000	\$89,031
HDI Global Specialty SE	4/2/2021 - 4/2/2022	Excess Liability	\$10,000,000	\$56,756
Navigators Insurance	4/2/2021 - 4/2/2022	Excess Liability	\$5,000,000	\$16,500
Safety Insurance Company	4/2/2021 - 4/2/2022	Automobile (OOS)	\$1,000,000	\$3,700
Hanover Insurance Group	4/2/2021 - 4/2/2022	Crime	\$1,000,000	\$4,912

Source: Commission's Insurance Records

Table 16
Water and Sewer Sales
Last Ten Fiscal Years

Water Revenues

	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>
Residential	\$ 20,447,895	\$ 17,292,613	\$ 15,616,135	\$ 14,911,091	\$ 15,218,954	\$ 14,381,642	\$ 13,415,558	\$ 12,876,718	\$ 13,064,819	\$ 11,890,448
Commercial	4,745,864	4,398,794	4,563,718	4,018,447	3,902,296	3,752,587	3,427,199	3,324,153	3,322,916	3,268,464
Industrial	1,274,604	977,510	973,305	1,019,910	944,766	1,080,588	1,136,290	962,255	944,594	1,057,444
Municipal	650,861	605,125	475,838	428,362	472,383	432,235	348,218	332,415	389,889	358,006
Solutia contract	6,229,929	5,714,593	5,944,006	5,521,688	5,536,360	5,352,632	5,107,358	5,750,299	4,732,387	5,252,409
Town contracts	4,932,096	3,409,620	4,295,035	4,293,041	4,162,012	2,327,342	3,927,297	3,816,647	3,675,537	3,105,189
Total	\$ 38,281,249	\$ 32,398,255	\$ 31,868,037	\$ 30,192,539	\$ 30,236,771	\$ 27,327,026	\$ 27,361,920	\$ 27,062,487	\$ 26,130,142	\$ 24,931,960
% Change	18.2%	1.7%	5.5%	-0.1%	10.6%	-0.1%	1.1%	3.6%	4.8%	N/A

Sewer Revenues

	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>
Residential	\$ 28,687,877	\$ 25,248,071	\$ 23,742,570	\$ 22,283,701	\$ 22,417,606	\$ 21,468,222	\$ 20,201,407	\$ 18,299,524	\$ 18,088,104	\$ 16,268,439
Commercial	3,921,619	3,896,503	4,300,077	3,656,813	3,335,785	3,229,732	2,965,577	2,719,577	2,560,645	2,462,284
Industrial	1,165,887	1,077,082	1,167,164	1,142,754	1,102,505	1,004,203	912,485	806,654	836,129	733,930
Municipal	317,969	348,468	368,578	342,826	339,232	352,828	304,162	276,567	261,290	250,156
FoodServ	176,649	190,073	215,004	228,551	226,155	217,125	202,774	184,378	184,039	196,404
Medical	1,059,897	950,367	921,445	914,203	848,081	868,499	760,404	760,560	790,687	762,874
Solutia contract	1,743,119	1,772,609	1,822,289	2,247,072	2,078,416	2,014,469	2,261,036	2,206,801	2,185,406	2,210,627
Town contracts	7,154,688	6,773,341	6,351,866	5,562,796	4,551,677	4,902,426	3,536,341	4,224,251	4,479,628	2,930,462
Total	\$ 44,227,705	\$ 40,256,514	\$ 38,888,993	\$ 36,378,716	\$ 34,899,457	\$ 34,057,504	\$ 31,144,186	\$ 29,478,312	\$ 29,385,928	\$ 25,815,176
% Change	9.9%	3.5%	6.9%	4.2%	2.5%	9.4%	5.7%	0.3%	13.8%	N/A

Source: Commission Billing System

Table 17
Capital Spending by Category
Last Ten Fiscal Years

	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>Totals</u>	<u>% of Total</u>
Water	\$ 8,864,872	\$ 10,848,846	\$ 9,454,096	\$ 8,086,519	\$ 7,516,116	\$ 15,371,825	\$ 14,281,580	\$ 4,744,033	\$ 7,631,526	\$ 10,833,266	\$ 88,767,807	34%
Sewer	28,078,727	32,523,915	8,869,437	15,705,575	19,415,137	17,824,767	11,796,065	24,317,434	10,708,220	6,357,393	147,517,943	57%
Power Generation	553,559	576,743	539,395	952,337	894,471	253,744	221,315	652,885	249,872	117,351	4,458,113	2%
Support	1,149,930	2,371,762	945,701	1,152,620	2,484,984	2,255,125	2,528,713	2,465,150	3,444,255	1,831,025	19,479,335	7%
Total	<u>\$ 38,647,088</u>	<u>\$ 46,321,266</u>	<u>\$ 19,808,629</u>	<u>\$ 25,897,051</u>	<u>\$ 30,310,708</u>	<u>\$ 35,705,461</u>	<u>\$ 28,827,673</u>	<u>\$ 32,179,502</u>	<u>\$ 22,033,873</u>	<u>\$ 19,139,035</u>	<u>\$ 260,223,198</u>	<u>100%</u>

Source: Commission's Accounting System