

# **Seattle Public Utilities**

## **Drainage and Wastewater**



### Overview

Seattle Public Utilities (SPU) maintains the network of sewer and drainage systems throughout the City of Seattle. These systems include approximately:

- 448 miles of sanitary sewers
- 968 miles of combined sewers
- 67 Pump Stations
- 5.5 miles of wastewater force mains
- 82 City-owned and permitted Combined Sewer Overflow points
- 38 Combined Sewer Overflow control detention tanks/pipes
- 481 miles of storm drains / 591 storm drain outfalls
- 24,733 catch basins
- 65 miles of ditches, 128 miles of culverts
- 30 miles of stream channel (49 creeks, 6 of which are salmon bearing)
- 9 acres of green stormwater infrastructure
- 17 detention/treatment ponds
- 295 drainage flow control facilities
- 578 water quality structures

The Drainage and Wastewater (DWF) CIP is the vehicle for rehabilitating, replacing, improving, and expanding this infrastructure, as well as constructing projects that protect, conserve, and enhance our region's environmental resources. Planned spending in the DWF CIP is approximately \$1.3 billion over the next six years, from 2023-2028.

### Thematic Priorities/Project Selection Criteria

The goal of the DWF CIP is to replace failing assets, construct new facilities that reduce the frequency of flooding and sewer backups for customers, improve water quality and habitat in the environment by reducing sewage overflows and the impacts of stormwater pollution, and provide adequate workforce facilities for our employees and equipment operations. Projects in the DWF CIP are guided by various Federal regulations, City policies, and long-term planning documents (e.g., the Plan to Protect Seattle's Waterways and asset management plans). Additional direction for SPU's capital improvement program come from our 2021-2026 Strategic Business Plan, which outlined new investments, cost savings, and a retail rate path for the six-year period and grew out of SPU's efforts to provide greater rate predictability for customers while making important investments for the future. In addition to candidate capital projects identified from these planning documents, projects are identified from external projects, opportunities, emergencies, and other unexpected events. Prioritized projects are predominantly based on the following:

- **Public Health, Safety & Environment:** The overriding priority for the DWF is maintaining public health and safety by providing or improving services to customers and decreasing our impact on the environment. Examples of highly ranked projects in this category include the Drainage Capacity program, Sanitary Sewer Overflow Capacity program, South Park Water Quality Facility, and Protection of Beneficial Uses program which includes floodplain reconnection efforts and water quality improvement projects.
- **Infrastructure Reliability & Risk:** How a project addresses infrastructure conditions or vulnerabilities. Examples of highly ranked projects in this category include the Pipe Rehabilitation and Pump Station improvement programs.

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- **Regulatory, Mandates, Legal Agreements:** The City of Seattle/SPU must comply with State and Federal regulatory requirements including the Clean Water Act (CWA) and the Consent Decree that was entered in court on July 3, 2013, between the City, the U.S. Environmental Protection Agency (EPA), and the U.S. Department of Justice (DOJ). The two most significant regulatory drivers associated with the CWA are the National Pollutant Discharge Elimination System (NPDES) Waste Discharge Permit (aka NPDES CSO Permit) and the NPDES Phase I Municipal Stormwater Permit (aka NPDES MS4 Permit). This ranking category considers the degree to which the project is driven by Federal, State, and local laws, permit and regulatory requirements, and consent decrees, as well as by legal agreements with public and private parties and the specific mandates of the City Council and Mayor. Examples of highly ranked projects in this category include the Ship Canal Water Quality Project, CSO Retrofits, South Park Water Quality Facility, and NDS Partnering.
- **External Drivers and Opportunities:** SPU’s responsiveness to, or engagement with, the projects of other Departments or Jurisdictions, or opportunities to provide multiple benefits, address service equity, or reduce ratepayer costs through outside funding opportunities. Examples of highly ranked projects in this category include the Transportation Agency projects through SDOT’s Bridging the Gap Program and Sound Transit.

To aid SPU in making responsible decisions on behalf of ratepayers, prioritized projects must then be justified through a business case process that establishes that a problem or opportunity is timely and important and that the proposed solution is superior to other alternatives based on a triple bottom line analysis (economic, environmental, and social) of life-cycle benefits and costs. The process also recognizes that a project may be a “must do” project (e.g., required by regulations). The need for a given projects or programs is documented in a business case document and must be approved by the SPU General Manager and Asset Management Committee or CIP Board.

### **DWW Priorities that are also Mayor/Council Priorities**

SPU's Strategic Business Plan helps us focus our work to better meet the needs of our customers and communities. It also provides our customers with a predictable three-year rate path and projections for the subsequent three years. SPU updates the plan and adopts rate path on a three-year cycle to allow for future uncertainties and adjustments. As part of the update process, SPU conducts broad research and public engagement efforts, in addition to soliciting input by the mayor’s office and council.

The DWW priorities in the SBP are the collective priorities for SPU’s DWW line of business, and they reflect and respond to values consistently expressed by customers and community: affordability, sustainability, and equity. SPU is committed to leading with equity and working in partnership with communities and employees to create a just and sustainable future. We understand that the actions we take today have the power to transform our employees, community, environment, and economy for generations to come.

SPU’s vision for being Community Centered, One Water, and Zero Waste is as follows:

- **Community Centered:** As a community-centered utility, we must be in relationship with community. Our work must include listening and advocating for community interests. If we are successful in adopting this mindset, then our communities will come away with a strong sense of empowerment.

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- One Water: The challenges facing the water industry are incredibly complex and costly. We must develop multi-faceted, multi-benefit systemic solutions that recognize the value in all water resources.
- Zero Waste: We must strive for a future where we are not producing waste. This means intense recycling/reuse, reducing packaging and food waste, and adopting and seeding new ways of doing business and circular economy (e.g., deconstruction vs. demolition).

Reaching our goals requires long-range planning and strategic maneuvering. SPU’s General Manager/CEO recently highlighted near term steps to lead the organization as part of his recent confirmation. These steps include planning for a transition away from centralized treatment plants to a future where small-scale decentralized treatment plants are the norm; adopting a continuous improvement culture to deliver services efficiently and effectively with data-informed decision making, work processes, and value-added outcomes for customers; and excellent service delivery that continues to prioritize the City’s values including implementing solutions that are sustainable and resilient, which includes a growing focus on delivering more holistic, programmatic, and nature-based solutions.

### CIP Highlights

**2023-2028 Adopted Drainage and Wastewater Fund CIP by BCL**  
(\$’s in ‘000s; total may not sum due to rounding)

BCL	2023	2024	2025	2026	2027	2028	Total
BC-SU-C333B - Protection of Beneficial Uses	24,531	30,405	71,713	52,679	35,927	27,520	<b>242,775</b>
BC-SU-C350B - Sediments	5,222	11,115	16,130	10,979	12,896	20,400	<b>76,742</b>
BC-SU-C360B - Combined Sewer Overflows	121,042	94,588	37,205	20,251	39,621	41,470	<b>354,177</b>
BC-SU-C370B - Rehabilitation	52,270	50,338	51,294	49,191	43,808	45,616	<b>292,517</b>
BC-SU-C380B - Flooding, Sewer Backup & Lndsl	16,681	12,657	36,340	27,568	36,732	34,168	<b>164,146</b>
BC-SU-C410B - Shared Cost Projects	18,076	23,535	30,003	16,163	17,713	18,737	<b>124,227</b>
BC-SU-C510B - Technology	7,149	4,821	4,322	4,322	4,321	4,321	<b>29,257</b>
<b>Total</b>	<b>244,970</b>	<b>227,460</b>	<b>247,006</b>	<b>181,152</b>	<b>191,020</b>	<b>192,232</b>	<b>1,283,840</b>

**Protection of Beneficial Uses:** This program makes improvements to the City’s drainage system to reduce the harmful effects of stormwater runoff on creeks and receiving water bodies and preserve the storm water conveyance function of our creeks through stream culvert repair and rehabilitation. The program includes projects to meet regulatory requirements, primarily NDS Partnering Projects (a key component of Seattle’s Plan to Protect Seattle’s Waterways) which improves water quality with GSI approaches, while also partnering with SDOT to provide mobility improvements and streetscape enhancements. The program also includes projects that are part of the SPU and Council created GSI in Urban Villages Program, helping SPU grow approaches for partnering with other agencies, developers, and community-based organization to install GSI at the lowest costs moment. Stream culvert and

floodplain storage efforts, including the Longfellow Flood Storage project, are exploring win-win partnerships with Seattle Parks and Recreation.

**Sediments:** The City of Seattle is a Potentially Responsible Party (PRP) for cleanup liabilities for contaminated sediments at the Lower Duwamish Waterway Superfund Site, the Harbor Island Superfund Site, and Gas Works Park due to alleged historic contributions from Combined Sewer Overflows (CSO), storm drain discharges, and other City-owned facilities. The city continues to work with the EPA, the Washington State Department of Ecology, King County, and other PRPs on an assessment of contaminants and sources. The Sediments program provides funding for studies and analysis for cleanup of contaminated sediment sites in which the City is a participant, engineering design, construction of actual cleanup of contaminated sites, and liability allocation negotiations. The study phase of sediment remediation projects often requires multiple years before specific cleanup actions are defined. Current projections reflect costs associated with cleanup construction adjacent to Gasworks Park, the Duwamish Waterway Sediment Remediation, and East Waterway Remediation projects beginning in 2024 based on preliminary schedules.

**Combined Sewer Overflows:** This program consists of projects that are mandated by State and Federal regulations to control combined sewer overflows (CSOs) into the City's receiving waters. During heavy rainfall events, the combination of stormwater (about 90 percent of the volume) and sewage may exceed the capacity of the combined sewer system (CSS) and overflow into our waterways – causing a combined sewer overflow (CSO). CSOs spill a mixture of raw sewage and stormwater into local waterways at 85 outfalls throughout the city. These spills violate water quality standards, create unacceptable risk to public health, contaminate sediment and habitats for endangered species, and pollute the Puget Sound.

Annual CSOs have been reduced from a range of 20-30 billion gallons per year by both the city and the County in 1970 to about 1 billion gallons per year today. The City's overflows account for approximately 100-200 million gallons per year. SPU currently does not meet regulatory mandates that limit CSOs to one untreated overflow per outfall location per year. SPU is required by State and Federal law to achieve control of CSOs by 2030. The LTCP, also called the Plan to Protect Seattle's Waterways, was approved by regulators in May 2015. Ultimately the Consent Decree requires completion of construction of all CSO reduction projects by December 2030. CSOs must be proven to be controlled one year after completion of construction. Continuing investments in CSO control will enable SPU to achieve compliance with the 2030 milestone.

Projects in the CSO Program include large infrastructure projects (e.g., storage structures, pipes, tunnels, wet weather treatment plants, stormwater separation, pump stations, etc.), smaller retrofits, construction of Green Stormwater Infrastructure (GSI) for CSO control, and development and implementation of regulatory required plans such as the Plan to Protect Seattle's Waterways. The largest project in the DWF CIP is the Ship Canal Water Quality Project (SCWQP). The SCWQP consists of a 2.7-mile-long, approximately 18-foot-diameter tunnel that, when completed, will capture and store approximately 75 million gallons of sewage and stormwater flows from Ballard, Fremont, Wallingford, and Queen Anne.

Planning is underway and will continue through the coming years for additional CSO reduction efforts to meet CSO Consent Decree compliance date requirements. SPU currently expects to spend approximately \$300 million over the next six years on CSO reduction projects. The majority of this spending is associated with the SCWQP, a \$570 million joint project with King County to control CSOs into the Lake Washington Ship Canal and Salmon Bay.

**Rehabilitation:** This program consists of projects that repair, rehabilitate, or replace existing drainage and wastewater assets to maintain or improve current functionality levels. Assets that are addressed include:

- pump station structures, force mains, airlift conversions, major mechanical, ventilation and electrical components;
- drainage facilities including water quality structures, flow control structures and large surface water facilities; and
- drainage and wastewater conveyance pipes and structures (catch basins, maintenance holes and sandboxes).

Work within this program is a critical component to achieving SPU's Consent Decree target of four sanitary sewer overflows per 100 miles of sewer pipe bi-annually. Individual projects are defined by the type and method of rehabilitation and/or replacement including emergency rehabilitation, no-dig pipe lining rehabilitation by crews or contract, full mainline dig pipe replacement by contract, dig point pipe and structure rehabilitation by crews or contract, pump station repairs or replacement by crew or contract, and force main repairs or replacement by contract.

This Adopted Budget will include a new drainage facility master project to rehabilitate or replace water quality structures, flow control structures and large surface water facilities by crew or contractor, and a drainage pipe rehabilitation program to replace and repair drainage pipes and conveyance structures.

**Flooding, Sewer Back-up, and Landslides:** This program is responsible for preventing and alleviating flooding and sewer backups in the City of Seattle, with a primary focus on the protection of public health, safety, and property. The program area is focused on planning, design, and construction of new pipes, ditches, culverts, detention facilities, and GSI that control and/or convey storm runoff to the ultimate discharge locations of creeks, lakes, and the Puget Sound. This program also involves protecting SPU's drainage and wastewater infrastructure in landslide prone areas from impending small landslides and providing drainage improvements where surface water generated from the City right-of-way is contributing to small landslides. Lastly, this program also includes sewer capacity projects that reduce sewer backups and help lower the risk of exceeding the Consent Decree target of four sanitary sewer overflows per 100 miles of sewer pipe per year. Major projects in this program include the Pearl Street SSO reduction project, the 12<sup>th</sup> Avenue drainage project, and the South Park Water Quality and Pump Station project. The South Park Water Quality Facility is a regulatory commitment within the Plan to Protect Seattle's Waterways.

**Shared Cost Projects:** This program includes individual capital improvement projects which typically benefit multiple Lines of Business (LOB) (e.g., the Water LOB and the Drainage and Wastewater LOB) and whose costs are "shared," or paid for by more than one of SPU's utility funds.

The Adopted Budget for the Shared Cost program includes budgets for a few interdepartmental projects including the Alaskan Way Viaduct and Seawall Replacement, Move Seattle, Center City Streetcar, and Sound Transit Link Light Rail. This BCL also includes funding for SPU Facility Improvements such as the South Operations Center, the North Operations Center, and a new dewatering facility near the South Transfer Station. Other programs in this BCL include DWW Heavy Equipment Purchases, 1% for the Arts, and several smaller projects.

**Technology:** The Technology CIP is managed in six program areas that provide a department-wide view of technology investments to address SPU's strategic, business, and City-wide priorities. These areas are:

- Customer Contact and Billing.
- Enterprise Information Management.
- IT Infrastructure.
- Project Delivery & Performance.
- Science & System Performance; and
- Asset Information Management.

Investments in 2023 address several of SPU’s key initiatives, including:

- Financial Management and Internal Controls.
- Operational Excellence and Performance Management.
- An Easy and Engaged Customer Experience.
- Data-driven Decision Support; and
- Project Delivery/Project Controls.

In 2023, SPU will continue focusing its technology spending on the highest priority business needs. These projects would primarily be within the Customer Contact and Billing Program, the Project Delivery and Performance Program, and the IT Infrastructure Program.

With the Customer Contact and Billing Upgrade project already in place, and the Utilities Customer Self-Service Portal project’s expected completion in Q3-2022, the next major projects for SPU within the Customer Contact and Billing Program include the Unified Communications Project and the Utilities Assistance Program. Other projects slated would be the Integrated Security System project, Accela Software Implementation, Development Systems Integration Phase 2 project, and the Construction Contract Management project, along with other projects that have been deferred in previous years.

### **CIP Revenue Sources**

The DWF CIP is financed through revenue bonds, a combination of low interest State and Federal loans, operating cash, and a small portion through capital grants or capital contributions in kind. Financial policies adopted by Council and embedded within revenue bond covenants require that non-debt sources of funds (operating cash, grants, contributions) comprise at least 25% of the portfolio over a four-year period.

For the 2023-2028 period, SPU has secured low interest SRF loans from the State Department of Ecology and WIFIA loans from the EPA to fund the majority of the Ship Canal Water Quality Project, with the balance funded through operating cash. The remaining projects will be funded through revenue bonds and operating cash. SPU will continue to seek out additional SRF and WIFIA loans where appropriate, as well as Public Works Trust Fund (PWTF) and Remedial Action Grants for sediments cleanup.

### **Summary of Upcoming Budget Issues and Challenges**

The biggest challenge for DWF will be continuing to manage priority projects while still complying with regulatory requirements from the EPA and the Washington State Department of Ecology (DOE) - all within the financial limitations of the Fund.



The City negotiated a Consent Decree among the City, the EPA, and the DOJ for compliance with the CWA and State regulations. The Consent Decree was entered in court on July 3, 2013 and includes deadlines for development and implementation of the LTCP and will drive spending in the CSO Reduction Program over the next several years. The Consent Decree also includes requirements to implement a Capacity Management, Operations and Maintenance (CMOM) Program, which drives operations and maintenance spending and CIP spending in the Rehabilitation Program. Additionally, an NPDES permit for stormwater includes requirements to help protect local waterways and the Puget Sound from damaging pollutants and excessive runoff. This increased regulatory emphasis on protecting and improving water quality has resulted in the need for the city to make substantial investments in water quality treatment, detention, CSO retrofits, pipe and pump station rehabilitation, and inflow/infiltration reduction.

- Water Quality Treatment: This focuses on removing pollutants and can be accomplished through GSI or the use of technology such as specialized media filters. GSI is the use of green solutions to help reduce untreated overflows by allowing stormwater to infiltrate slowly into the ground, cutting the volume of stormwater entering the system, and providing water quality treatment through natural processes as the polluted runoff comes in contact with the soil and vegetation.
- Detention: This focuses on storing stormwater and/or sewage during a rainfall event and can be accomplished through detention ponds (for stormwater), GSI (for stormwater), floodplain reconnection (for stormwater), or underground tanks or tunnels (for both wastewater and stormwater). Detention can be added to the drainage system to offset the impacts of larger storms that overwhelm the conveyance capacity of the combined sewer system resulting in backups of sewage, localized flooding, and releases of untreated sewage.
- CSO and Drainage Facility Retrofits: This focuses on optimizing existing collection, pumping and storage systems, using low-cost repairs and modifications to reduce pollution to waterways and/or improve flow control benefits.
- Pipe and Pump Station Rehabilitation: This consists of repairing, rehabilitating, or replacing existing gravity sewer and drainage pipes and structures, wastewater pump stations, and/or force mains that have deficiencies or have reached the end of their useful life.
- Inflow/Infiltration Reduction: This focuses on addressing parts of the system where there are direct stormwater connections to the sanitary sewer system which can be directed to a separated stormwater system. Infiltration reduction focuses on filling in cracks in sewer lines that allow groundwater to enter the system. By reducing inflow/infiltration, it is possible to reduce the frequency and volume of SSOs and sewer backups.

Other challenges DWF faces in meeting its obligations:

- 1) Addressing public expectations: It is challenging to address public expectations around our basic service level programs, such as flooding and system capacity. Funding levels for these programs are less than needed, but unable to be increased at this time due to the demand on our budget from regulatory requirements. The separated drainage and wastewater systems are either at capacity during storm events or lacking the fundamental infrastructure at various locations across the City. The impacts can range from very serious (basement sewer back-ups) to nuisance (limited street or yard flooding) issues.

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- 2) **Construction Costs:** Market conditions and increasing cost of building large (drainage and wastewater) infrastructure in dense urban areas continue to put pressure on the portfolio. Additionally, the COVID-19 pandemic is ongoing, and the duration and severity of each outbreak and economic impact remain uncertain.
- 3) **Climate Change:** Increasing rainfall intensities resulting from climate change are increasing pressure on existing drainage and wastewater infrastructure leading to increased CSOs and driving the need for larger solutions and additional system improvements. SPU assets also have risks related to sea level rise along the marine shoreline of the city.
- 4) **King County Regional Treatment and Disposal rate increase impact:** In 1958, a regional sewage treatment agency, the Municipality of Metropolitan Seattle (“Metro”), was formed to provide a regional solution to water quality problems. The City, rather than expanding its own treatment facilities, entered into a contract with Metro for sewage treatment. Metro operates three major regional wastewater treatment plants, two smaller local treatment plants, and four combined sewer overflow (“CSO”) treatment facilities, along with an extensive regional interceptor system to route sewage to the plants and stop untreated discharges into Lake Washington and other bodies of water. Metro and King County (the “County”) were merged in 1994. Since then, the County has been responsible for sewage treatment and disposal and has entered into a long-term contract with local sewage agencies, including the City, which remain responsible for their own local collection and transmission lines. The County currently provides services to 37 entities, including cities (including the City), sewer districts, and others. The County finances the capital and operating costs of its sewage treatment and disposal system, including projects from the Regional Wastewater Services Plan, with capacity charges to new customers and wholesale charges to the City and other component agencies, all of which are established by the County Council pursuant to the current agreement. Currently, the City’s share of the County’s wholesale charge revenue is approximately 40%, and SPU passes this wholesale charge on to the City’s Drainage and Wastewater System ratepayers. Future County increases in rates may impact the funding allocation available for SPU services.

### **Future Projects/What is on the horizon**

Over the next 10 years the DWF CIP will be driven largely by regulatory requirements, major transportation projects, and Operations Crew Facilities. Major projects include the completion of the Ship Canal Water Quality Project, sediment remediation, and other projects necessary under the LTCP/Plan to Protect Seattle’s Waterways, including right-of-way bioretention through the Natural Drainage System Program, and South Park water quality facility.

The city is currently engaged in planning that will identify capital and operating and maintenance needs for the Drainage and Wastewater System. The City’s Plan to Protect Seattle’s Waterways (LTCP to reduce CSO and Integrated Plan that addresses both sewage overflows and polluted stormwater runoff), which was approved by the EPA, Department of Justice, and Ecology, requires CIP investments in wastewater and stormwater projects through 2030. Supplementing in the near-term and looking beyond 2030, SPU is in the process of developing a community-centered plan to guide investments in integrated utility infrastructure for the next 50 years ([Shape Our Water Plan](#)). Through this planning effort, SPU will identify the partnerships, programs, and projects that will improve the performance and resilience of our drainage and wastewater systems while optimizing social and environmental co-benefits for the city. This planning is part of building a better Seattle by providing drainage and wastewater services that are affordable, safe, green, and just in a climate uncertain future.

### Beneficial Uses Program

<b>Project No:</b>	MC-SU-C3317	<b>BSL Code:</b>	BC-SU-C333B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Protection of Beneficial Uses
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing project develops drainage related projects to improve the water quality, stream function and habitat in the streams and receiving waters of Seattle. Projects include stream and habitat restoration to reduce flooding, culvert repair and replacements to protect public safety, and green stormwater infrastructure projects to address flooding and control and clean runoff to streams.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Rates	11,733	1,989	1,242	6,456	21,805	16,784	8,931	6,840	75,780
<b>Total:</b>	<b>11,733</b>	<b>1,989</b>	<b>1,242</b>	<b>6,456</b>	<b>21,805</b>	<b>16,784</b>	<b>8,931</b>	<b>6,840</b>	<b>75,780</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Fund	11,733	1,989	1,242	6,456	21,805	16,784	8,931	6,840	75,780
<b>Total:</b>	<b>11,733</b>	<b>1,989</b>	<b>1,242</b>	<b>6,456</b>	<b>21,805</b>	<b>16,784</b>	<b>8,931</b>	<b>6,840</b>	<b>75,780</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

*\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars*

### Broadview Long-Term Plan

<b>Project No:</b>	MC-SU-C3812	<b>BSL Code:</b>	BC-SU-C380B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Flooding, Sewer Backup & Landslide
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Broadview
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Council District 5
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Northwest
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

The Broadview Long-Term Plan had been an ongoing program to address longstanding drainage and wastewater problems. The current funded capital project within that program is the 12th Avenue NW Drainage Basin project, which addresses public and private flooding problems in that area by providing stormwater detention and green infrastructure.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Rates	9,321	4,158	4,152	29	-	-	-	-	17,660
<b>Total:</b>	<b>9,321</b>	<b>4,158</b>	<b>4,152</b>	<b>29</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>17,660</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Fund	9,321	4,158	4,152	29	-	-	-	-	17,660
<b>Total:</b>	<b>9,321</b>	<b>4,158</b>	<b>4,152</b>	<b>29</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>17,660</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

### Creek Culvert Replacement Program

<b>Project No:</b>	MC-SU-C3314	<b>BSL Code:</b>	BC-SU-C333B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Protection of Beneficial Uses
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing project provides for the repair and replacement of stream culverts that are part of SPU's critical drainage infrastructure. Culverts are prioritized for repair or replacement based on structural condition. Projects are then sequenced based on prioritization and other factors such as readiness to proceed, ability to address other drainage needs (e.g., flooding, maintenance), potential partnerships, synergies with other projects and availability of funding.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Rates	6,786	2,184	1,541	1,905	14,272	9,630	4,865	4,100	45,285
<b>Total:</b>	<b>6,786</b>	<b>2,184</b>	<b>1,541</b>	<b>1,905</b>	<b>14,272</b>	<b>9,630</b>	<b>4,865</b>	<b>4,100</b>	<b>45,285</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Fund	6,786	2,184	1,541	1,905	14,272	9,630	4,865	4,100	45,285
<b>Total:</b>	<b>6,786</b>	<b>2,184</b>	<b>1,541</b>	<b>1,905</b>	<b>14,272</b>	<b>9,630</b>	<b>4,865</b>	<b>4,100</b>	<b>45,285</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### CSO Facility Retrofit

<b>Project No:</b>	MC-SU-C3611	<b>BSL Code:</b>	BC-SU-C360B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Combined Sewer Overflows
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing project retrofits, upgrades, and modifies existing Combined Sewer Overflows (CSO) reduction facilities in Seattle CSO basins. Retrofit projects cost-effectively optimize and maximize existing system operation to minimize CSOs to the greatest extent possible, reducing long term CSO storage needs. This project assists in achieving State Department of Ecology's requirement of an average of no more than one CSO event per outfall per year.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Rates	27,428	1,117	30	10	10	10	10	10	28,625
<b>Total:</b>	<b>27,428</b>	<b>1,117</b>	<b>30</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>28,625</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Fund	27,428	1,117	30	10	10	10	10	10	28,625
<b>Total:</b>	<b>27,428</b>	<b>1,117</b>	<b>30</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>28,625</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

### Drainage Capacity Program

<b>Project No:</b>	MC-SU-C3802	<b>BSL Code:</b>	BC-SU-C380B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Flooding, Sewer Backup & Landslide
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program provides flood control and local drainage and wastewater projects to improve system capacity or increase the existing level of service. Candidate projects are identified through DWW investigations, claims, complaints, studies, and prior planning. Drainage “spot” projects and small landslides prevention projects are also included within this program. The Localized Flood Control Program improves Drainage and Wastewater levels of service.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Rates	24,522	2,928	4,616	5,008	9,971	11,307	11,483	10,083	79,918
<b>Total:</b>	<b>24,522</b>	<b>2,928</b>	<b>4,616</b>	<b>5,008</b>	<b>9,971</b>	<b>11,307</b>	<b>11,483</b>	<b>10,083</b>	<b>79,918</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Fund	24,522	2,928	4,616	5,008	9,971	11,307	11,483	10,083	79,918
<b>Total:</b>	<b>24,522</b>	<b>2,928</b>	<b>4,616</b>	<b>5,008</b>	<b>9,971</b>	<b>11,307</b>	<b>11,483</b>	<b>10,083</b>	<b>79,918</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

### Drainage Facilities Rehabilitation

<b>Project No:</b>	MC-SU-C3711	<b>BSL Code:</b>	BC-SU-C370B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Rehabilitation
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Citywide
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This new project provides for improvements and upgrades to SPU-owned drainage facilities including, but not limited to, detention/treatment ponds, flow control facilities, and water quality structures. Typical improvements may include, but are not limited to, the repair, rehabilitation, or replacement of drainage facilities.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Rates	1,161	2,750	3,050	3,500	5,660	5,060	3,160	2,560	26,901
<b>Total:</b>	<b>1,161</b>	<b>2,750</b>	<b>3,050</b>	<b>3,500</b>	<b>5,660</b>	<b>5,060</b>	<b>3,160</b>	<b>2,560</b>	<b>26,901</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Fund	1,161	2,750	3,050	3,500	5,660	5,060	3,160	2,560	26,901
<b>Total:</b>	<b>1,161</b>	<b>2,750</b>	<b>3,050</b>	<b>3,500</b>	<b>5,660</b>	<b>5,060</b>	<b>3,160</b>	<b>2,560</b>	<b>26,901</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Future CSO Projects

<b>Project No:</b>	MC-SU-C3612	<b>BSL Code:</b>	BC-SU-C360B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Combined Sewer Overflows
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	N/A
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This project is for future combined sewer overflow (CSO) reduction projects that will be identified through the CSO Long-Term Control Plan (LTCP) Update. Future projects are most likely to include underground storage projects, wastewater lift station improvements, and/or wastewater conveyance system improvements. Planning for the projects began in 2018, and the projects should complete their construction by 2030.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Rates	3,679	1,885	1,255	5,216	9,317	17,125	37,339	41,010	116,825
<b>Total:</b>	<b>3,679</b>	<b>1,885</b>	<b>1,255</b>	<b>5,216</b>	<b>9,317</b>	<b>17,125</b>	<b>37,339</b>	<b>41,010</b>	<b>116,825</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Fund	3,679	1,885	1,255	5,216	9,317	17,125	37,339	41,010	116,825
<b>Total:</b>	<b>3,679</b>	<b>1,885</b>	<b>1,255</b>	<b>5,216</b>	<b>9,317</b>	<b>17,125</b>	<b>37,339</b>	<b>41,010</b>	<b>116,825</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Green Stormwater Infrastructure Program

<b>Project No:</b>	MC-SU-C3610	<b>BSL Code:</b>	BC-SU-C360B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Combined Sewer Overflows
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Citywide
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program provides construction of Green Stormwater Infrastructure (GSI) as a component of combined sewer overflow (CSO) reduction within the uncontrolled CSO basins. Work includes roadside bioretention and the RainWise program. RainWise provides financial incentives to private property owners within our uncontrolled CSO basins for construction of properly sized and installed raingardens or cisterns. The program supports the City's current regulatory strategy for compliance with CSO National Pollutant Discharge Elimination System (NPDES) permit.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Rates	15,351	436	300	300	300	300	300	450	17,737
<b>Total:</b>	<b>15,351</b>	<b>436</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>450</b>	<b>17,737</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Fund	15,351	436	300	300	300	300	300	450	17,737
<b>Total:</b>	<b>15,351</b>	<b>436</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>450</b>	<b>17,737</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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**GSI for Protection of Beneficial Uses**

<b>Project No:</b>	MC-SU-C3316	<b>BSL Code:</b>	BC-SU-C333B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Protection of Beneficial Uses
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program provides construction of Green Stormwater Infrastructure (GSI) within the separated stormwater system. Work includes right-of-way retrofits with bioretention and/or biofiltration for water quality treatment and flow control, as well as potential expansion of private property incentives for construction of properly sized and installed rain gardens or cisterns (RainWise program) into creek watersheds. The Natural Drainage Systems Projects within this program will achieve the water quality goals for the NDS Partnering Program identified in Seattle’s Plan to Protect Seattle’s Waterways (the Long Term Control Plan requirement within our Consent Decree) while coordinating with SDOT and community groups to deliver co-benefits such as sidewalks. The program also includes projects that are part of the SPU and Council created GSI in Urban Villages Program which will deliver multi-purpose green infrastructure projects in urban villages and urban centers through community partnerships and development synergies.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Rates	29,385	20,858	21,747	22,044	35,635	26,266	22,130	16,580	194,645
<b>Total:</b>	<b>29,385</b>	<b>20,858</b>	<b>21,747</b>	<b>22,044</b>	<b>35,635</b>	<b>26,266</b>	<b>22,130</b>	<b>16,580</b>	<b>194,645</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Fund	29,385	20,858	21,747	22,044	35,635	26,266	22,130	16,580	194,645
<b>Total:</b>	<b>29,385</b>	<b>20,858</b>	<b>21,747</b>	<b>22,044</b>	<b>35,635</b>	<b>26,266</b>	<b>22,130</b>	<b>16,580</b>	<b>194,645</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Long Term Control Plan

<b>Project No:</b>	MC-SU-C3604	<b>BSL Code:</b>	BC-SU-C360B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Combined Sewer Overflows
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This project supports the ongoing implementation of SPU's Combined Sewer Overflow (CSO) Reduction Long Term Control Plan (LTCP) in accordance with SPU's National Pollutant Discharge Elimination System (NPDES) permit and the Federal CSO Control Policy. On May 1, 2012, the Environmental Protection Agency/Department of Justice issued a draft Consent Decree to the City of Seattle which requires the development and submission of a Long-Term Control Plan for approval by May 30, 2015. It further stipulates that all CSO Control Measures are to be constructed as expeditiously as practicable, and in no event later than December 31, 2030. The Consent Decree also allows the City to propose storm water control project(s) as part of an Integrated Plan, in addition to the CSO Control Measures. The LTCP identified projects and programs to reduce the number and volume of CSOs, meet receiving water quality standards, and protect designated beneficial uses. The LTCP includes flow characterization, monitoring, and hydraulic modeling; development of CSO control alternatives; development of control alternatives that takes into consideration costs and performance; operational plan revisions; public participation; implementation schedule; and post-construction monitoring.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Rates	17,740	570	1,000	1,000	800	800	-	-	21,911
<b>Total:</b>	<b>17,740</b>	<b>570</b>	<b>1,000</b>	<b>1,000</b>	<b>800</b>	<b>800</b>	<b>-</b>	<b>-</b>	<b>21,911</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Fund	17,740	570	1,000	1,000	800	800	-	-	21,911
<b>Total:</b>	<b>17,740</b>	<b>570</b>	<b>1,000</b>	<b>1,000</b>	<b>800</b>	<b>800</b>	<b>-</b>	<b>-</b>	<b>21,911</b>

**O&M Impacts:** Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

### Outfall Rehabilitation Program

<b>Project No:</b>	MC-SU-C3708	<b>BSL Code:</b>	BC-SU-C370B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Rehabilitation
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing project provides rehabilitation of outfalls throughout Seattle Public Utilities service area. Typical improvements may include, but are not limited to, repair, rehabilitation or replacement of outfall structures. This project will investigate the condition of each of the outfalls and complete an options analysis, followed by design, construction, and closeout activities.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Rates	4,053	500	350	550	1,045	1,808	400	300	9,006
<b>Total:</b>	<b>4,053</b>	<b>500</b>	<b>350</b>	<b>550</b>	<b>1,045</b>	<b>1,808</b>	<b>400</b>	<b>300</b>	<b>9,006</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Fund	4,053	500	350	550	1,045	1,808	400	300	9,006
<b>Total:</b>	<b>4,053</b>	<b>500</b>	<b>350</b>	<b>550</b>	<b>1,045</b>	<b>1,808</b>	<b>400</b>	<b>300</b>	<b>9,006</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Pipe Renewal Program

<b>Project No:</b>	MC-SU-C3710	<b>BSL Code:</b>	BC-SU-C370B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Rehabilitation
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

SPU operates and maintains approximately 1,423 miles of wastewater conveyance (combined and separated) pipe. The age of this infrastructure varies; however, significant portions of the system were constructed prior to 1950. This ongoing program repairs, replaces, rehabilitates and renews the conveyance system by SPU crews and various contracting construction projects.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Rates	116,127	32,308	37,272	39,186	32,636	32,776	31,000	33,000	354,306
<b>Total:</b>	<b>116,127</b>	<b>32,308</b>	<b>37,272</b>	<b>39,186</b>	<b>32,636</b>	<b>32,776</b>	<b>31,000</b>	<b>33,000</b>	<b>354,306</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Fund	116,127	32,308	37,272	39,186	32,636	32,776	31,000	33,000	354,306
<b>Total:</b>	<b>116,127</b>	<b>32,308</b>	<b>37,272</b>	<b>39,186</b>	<b>32,636</b>	<b>32,776</b>	<b>31,000</b>	<b>33,000</b>	<b>354,306</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

### Pump Station & Force Main Improvements

<b>Project No:</b>	MC-SU-C3703	<b>BSL Code:</b>	BC-SU-C370B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Rehabilitation
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing project provides for improvements and upgrades to the 68 SPU-owned wastewater pump stations and force mains. Typical improvements may include, but are not limited to, replacement of existing pump station assets including pumps, motors, and valves, and installation of new assets such as SCADA systems, generators, and emergency plugs. This project enhances and extends the useful life of the existing pump stations which protects water quality.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Rates	29,402	8,993	11,598	7,102	11,953	9,546	9,248	9,756	97,599
<b>Total:</b>	<b>29,402</b>	<b>8,993</b>	<b>11,598</b>	<b>7,102</b>	<b>11,953</b>	<b>9,546</b>	<b>9,248</b>	<b>9,756</b>	<b>97,599</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Fund	29,402	8,993	11,598	7,102	11,953	9,546	9,248	9,756	97,599
<b>Total:</b>	<b>29,402</b>	<b>8,993</b>	<b>11,598</b>	<b>7,102</b>	<b>11,953</b>	<b>9,546</b>	<b>9,248</b>	<b>9,756</b>	<b>97,599</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

### S Henderson CSO Storage

<b>Project No:</b>	MC-SU-C3609	<b>BSL Code:</b>	BC-SU-C360B
<b>Project Type:</b>	Discrete	<b>BSL Name:</b>	Combined Sewer Overflows
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	S Henderson St.
<b>Current Project Stage:</b>	Stage 6 - Closeout	<b>Council District:</b>	Council District 2
<b>Start/End Date:</b>	2001 - 2019	<b>Neighborhood District:</b>	Southeast
<b>Total Project Cost:</b>	\$59,601	<b>Urban Village:</b>	Not in an Urban Village

This project provides construction of combined sewer overflows (CSO) facilities in the Henderson area in the southeast part of Seattle. Facilities will be built to meet level of service requirements for CSOs and comply with State and Federal regulations.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Rates	59,617	-	-	-	-	-	-	-	59,617
<b>Total:</b>	<b>59,617</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>59,617</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Fund	59,617	-	-	-	-	-	-	-	59,617
<b>Total:</b>	<b>59,617</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>59,617</b>

**O&M Impacts:** Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars



### Sanitary Sewer Overflow Capacity

<b>Project No:</b>	MC-SU-C3804	<b>BSL Code:</b>	BC-SU-C380B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Flooding, Sewer Backup & Landslide
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program is designed to improve sanitary sewer service to Seattle customers by addressing current and projected capacity limitations of the wastewater system through capital project improvements. Such improvements may include demand management measures such as infiltration and inflow (I/I) reduction, increased conveyance capacity, and individual customer measures such as installation of backflow preventers or grinder pumps to reduce the risk that customers will experience backups of sewage into their homes and businesses during storm events.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Rates	19,076	3,799	2,430	4,625	8,285	12,985	14,585	13,785	79,570
<b>Total:</b>	<b>19,076</b>	<b>3,799</b>	<b>2,430</b>	<b>4,625</b>	<b>8,285</b>	<b>12,985</b>	<b>14,585</b>	<b>13,785</b>	<b>79,570</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Fund	19,076	3,799	2,430	4,625	8,285	12,985	14,585	13,785	79,570
<b>Total:</b>	<b>19,076</b>	<b>3,799</b>	<b>2,430</b>	<b>4,625</b>	<b>8,285</b>	<b>12,985</b>	<b>14,585</b>	<b>13,785</b>	<b>79,570</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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**Sediment Remediation**

<b>Project No:</b>	MC-SU-C3503	<b>BSL Code:</b>	BC-SU-C350B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Sediments
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides for City of Seattle participation in cleanup of contaminated sediment sites at multiple locations across Seattle for which the City's drainage and wastewater utilities may have some liability. Typical phases of such projects include preliminary studies and analyses, preliminary engineering for actual cleanup efforts, and liability allocation negotiations. This program enhances the natural environment of Seattle and addresses both State and Federal regulatory agency requirements.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Rates	47,135	5,786	5,222	11,115	16,130	10,979	12,896	20,400	129,663
<b>Total:</b>	<b>47,135</b>	<b>5,786</b>	<b>5,222</b>	<b>11,115</b>	<b>16,130</b>	<b>10,979</b>	<b>12,896</b>	<b>20,400</b>	<b>129,663</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Fund	47,135	5,786	5,222	11,115	16,130	10,979	12,896	20,400	129,663
<b>Total:</b>	<b>47,135</b>	<b>5,786</b>	<b>5,222</b>	<b>11,115</b>	<b>16,130</b>	<b>10,979</b>	<b>12,896</b>	<b>20,400</b>	<b>129,663</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Ship Canal Water Quality Project

<b>Project No:</b>	MC-SU-C3614	<b>BSL Code:</b>	BC-SU-C360B
<b>Project Type:</b>	Discrete	<b>BSL Name:</b>	Combined Sewer Overflows
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	West Ship Canal
<b>Current Project Stage:</b>	Stage 5 - Construction	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	2014 - 2027	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	\$570,000	<b>Urban Village:</b>	Multiple

The City of Seattle (the City) has prepared a comprehensive strategy, called The Plan to Protect Seattle's Waterways (the Plan) to reduce overflows and discharge of pollutants from combined sewers and the storm drain system. The City must control sewer discharges to protect public health, the environment, to comply with the Clean Water Act, the United States District Court Consent Decree, and State regulations. On May 29, 2015, the City submitted the plan to EPA and Ecology for approval. The largest project identified in the Plan is the Ship Canal Water Quality Project. This project is a joint project between SPU and King County to design and construct a storage tunnel to capture Combined Sewer Overflows for 5 SPU outfalls and two King County outfalls. The tunnel will be 2.7 miles long and run from Wallingford to Ballard. The tunnel will be approximately 18 feet in diameter and have a storage volume of about 30 million gallons. The purpose of the project is to bring all seven outfalls into compliance with the State's control standard of one untreated overflow per year per outfall on a 20-year moving average. Note all City/County funding allocations are for informational purposes, only. Actual resource allocations will be determined through ongoing project governance agreements and interagency coordination between the City and King County.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Rates	190,398	50,814	100,951	77,435	20,838	2,016	1,973	-	444,425
King County Funds	47,924	43,559	17,507	10,627	5,940	-	-	-	125,556
<b>Total:</b>	<b>238,322</b>	<b>94,373</b>	<b>118,457</b>	<b>88,062</b>	<b>26,778</b>	<b>2,016</b>	<b>1,973</b>	<b>-</b>	<b>569,981</b>

  

Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Fund	238,322	94,373	118,457	88,062	26,778	2,016	1,973	-	569,981
<b>Total:</b>	<b>238,322</b>	<b>94,373</b>	<b>118,457</b>	<b>88,062</b>	<b>26,778</b>	<b>2,016</b>	<b>1,973</b>	<b>-</b>	<b>569,981</b>

**O&M Impacts:** Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

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### South Park Stormwater Program

<b>Project No:</b>	MC-SU-C3806	<b>BSL Code:</b>	BC-SU-C380B
<b>Project Type:</b>	Discrete	<b>BSL Name:</b>	Flooding, Sewer Backup & Landslide
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	698 S Riverside DR
<b>Current Project Stage:</b>	Stage 3 - Design	<b>Council District:</b>	Council District 1
<b>Start/End Date:</b>	2006 - 2025	<b>Neighborhood District:</b>	Greater Duwamish
<b>Total Project Cost:</b>	\$134,876	<b>Urban Village:</b>	Greater Duwamish

This program constructs a pump station (PS), a water quality facility (WQF), and additional drainage conveyance in South Park. The PS will allow the existing storm drain outfall to drain the system when the tide is high and will support future drainage projects. The WQF will treat most stormwater flows from the basin, reducing pollutant loading to the Duwamish. Excessive flows will bypass the WQF and be pumped directly to the river. This program was formerly titled "South Park Pump Station."

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Rates	37,420	21,032	5,482	2,995	18,084	3,276	10,664	10,300	109,253
<b>Total:</b>	<b>37,420</b>	<b>21,032</b>	<b>5,482</b>	<b>2,995</b>	<b>18,084</b>	<b>3,276</b>	<b>10,664</b>	<b>10,300</b>	<b>109,253</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Fund	37,420	21,032	5,482	2,995	18,084	3,276	10,664	10,300	109,253
<b>Total:</b>	<b>37,420</b>	<b>21,032</b>	<b>5,482</b>	<b>2,995</b>	<b>18,084</b>	<b>3,276</b>	<b>10,664</b>	<b>10,300</b>	<b>109,253</b>

**O&M Impacts:** Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

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### Thornton Confluence Improvement

<b>Project No:</b>	MC-SU-C3811	<b>BSL Code:</b>	BC-SU-C380B
<b>Project Type:</b>	Discrete	<b>BSL Name:</b>	Flooding, Sewer Backup & Landslide
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Thornton Creek
<b>Current Project Stage:</b>	Stage 6 - Closeout	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	2008 - 2019	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	\$7,907	<b>Urban Village:</b>	Not in an Urban Village

This project provides creek realignment, floodplain excavation, culvert replacement, and riparian plantings at the confluence of the north and south branches of Thornton Creek. SPU has acquired a number of flood prone properties in this area over the last decade. Using these properties, this project increases culvert capacity, floodplain area and flood storage, and provides stream habitat benefits. The project will help alleviate flooding and reduce maintenance at Meadowbrook Pond.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Rates	7,611	50	-	-	-	-	-	-	7,661
<b>Total:</b>	<b>7,611</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>7,661</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Fund	7,611	50	-	-	-	-	-	-	7,661
<b>Total:</b>	<b>7,611</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>7,661</b>

**O&M Impacts:** Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

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# **Seattle Public Utilities**

## **Solid Waste**





## Overview

Seattle Public Utilities (SPU) collects and disposes of solid waste generated within the City of Seattle. To fulfill this responsibility, the City owns and manages the following significant infrastructure:

- Two transfer stations;
- One recycling and re-use facility;
- Two household hazardous waste facilities;
- A fleet of trucks and heavy equipment; and
- Three closed landfills previously used by the City, plus assistance to Seattle Parks on two other closed landfills.

The Solid Waste Fund (SWF) Capital Improvement Plan (CIP) is the planning tool for rehabilitating, replacing, improving, and expanding infrastructure, as well as constructing projects that protect, conserve, and enhance our region’s environmental resources. Planned spending in the SWF CIP is approximately \$85 million over the next six years, from 2023 through 2028.

Major anticipated projects include:

- South Transfer Station Facility Redevelopment.
- Cleanup of the historic South Park Landfill at the South Park Development Project.

These projects comprise approximately 49% of the SWF CIP. Other significant projects include the Waste Removal project at the Midway Landfill, replacing two compactors, floor replacement at the South Transfer Station, and SPU’s annual equipment investment.

## Thematic Priorities

The SWF places a high priority on managing environmental issues and addressing regulatory requirements related to current and historic solid waste facilities while protecting employees and customer health and safety.

- Managing environmental issues and regulations: SPU is required to improve former landfill sites and act as necessary when conditions change. For example, underground gas levels at these sites are monitored. When increasing gas levels are detected, SPU implements improvements to extract the excess gas or otherwise mitigate the environmental impacts of the gas increase. Landfill projects are also triggered by Washington State Department of Transportation improvements to Interstate-5 that require modification to landfill infrastructure in the right-of-way and support of Sound Transit projects that impact the Midway Landfill. Additionally, the new transfer stations are designed to reduce the environmental impacts of the existing stations on neighboring communities.

## Project Selection Criteria

SPU identifies candidate capital projects from several sources – planning (e.g., comprehensive plans, program plans), external projects and opportunities, and emergencies or other unexpected events. Under SPU’s Asset Management System, projects must be justified through a business case process that establishes that a problem or opportunity is timely and important and that the proposed solution is

superior to alternatives based on a triple bottom line analysis (economic, environmental, and social) of life-cycle benefits and costs. The process also recognizes that a project may be a “must do” project (e.g. required by regulations).

Prioritization of SPU projects are based on the following set of criteria:

- **Regulatory Mandates, Legal Agreements:** The degree to which the project is driven by Federal, State, and local laws, permit and regulatory requirements, and consent decrees; as well as by legal agreements with public and private parties. Examples of highly ranked projects in this category include the South Park Development project and Kent Highlands and Midway Landfills programs.
- **External Drivers:** SPU’s responsiveness to, or engagement with, the projects of other departments or jurisdictions, and the specific mandates of the City Council and Mayor. An example of a project in this category is the 1% for Arts program.
- **Infrastructure:** How a project addresses infrastructure conditions or vulnerabilities. An example of a highly ranked project in this category is the tipping floor replacement at the South Transfer Station.
- **Level of Service:** The importance of this project in providing or improving services to customers and neighbors. An example of a highly ranked project in this category is the replacement of two compactors at the transfer stations.
- **Other Factors:** Other important factors include high net present value or cost-effectiveness, social or environmental benefits that were not otherwise recognized, a project already in progress or near completion, limited time opportunity, demonstration projects, community visibility, or outside funding.

**Every project is rated against each criterion.** Criteria are then considered in determining an overall project priority ranking, using expert judgment (rather than a formula). Priority rankings for the CIP are determined by the leads for each LOB, with reviews by key internal stakeholders. The ranking scheme and criteria are the same for all LOBs and are approved by the SPU General Manager/CEO and Asset Management Committee. Project priority rankings are used to clarify and document which projects are most important and why, to help determine which projects at the margin will be included, excluded or deferred from the CIP, and which projects should receive priority attention if a staff or financial resource constraint should arise.

## CIP Highlights

**2023-2028 Adopted Solid Waste Fund CIP by BSL**

(In '000s; total may not sum due to rounding)

BSL	2023	2024	2025	2026	2027	2028	Total
<b>New Facilities</b>	10,278	8,777	23,516	9,769	1,500	700	<b>54,540</b>
<b>Rehabilitation &amp; Heavy Eqpt</b>	550	1,800	150	250	400	250	<b>3,400</b>
<b>Shared Cost Projects</b>	5,015	3,597	2,959	2,019	1,996	2,048	<b>17,633</b>
<b>Technology</b>	2,145	1,508	1,508	1,508	1,508	1,508	<b>9,682</b>
<b>Total</b>	<b>17,988</b>	<b>15,682</b>	<b>28,132</b>	<b>13,546</b>	<b>5,403</b>	<b>4,505</b>	<b>85,256</b>

**New Facilities:** This program includes the planning, design, and construction of new facilities to enhance solid waste operations. SPU will continue to implement its Solid Waste Facilities Master Plan. The key project drivers of the New Facilities budget are the South Park Development (landfill cleanup) and the South Transfer Station operational improvements projects.

**Rehabilitation and Heavy Equipment:** This program includes design and construction of projects that repair and/or upgrade solid waste facilities other than the transfer stations. The key drivers of this budget level are the Midway project and new funding for the Solid Waste Comprehensive Plan Update as required by the Washington State Department of Ecology.

**Shared Cost Projects:** This program includes individual capital improvement projects that typically benefit multiple Lines of Business (LOB) (e.g., the Water LOB and the Drainage and Wastewater LOB) and which costs are "shared," or paid for by more than one of SPU's utility funds. Key driver for this budget includes heavy equipment purchases, which reflects the best estimate of the required fleet of trucks and heavy equipment for the transfer stations.

**Technology:** The Technology CIP is managed in six program areas that provide a department-wide view of technology investments to address SPU's strategic, business, and City-wide priorities. These areas are:

- Customer Contact and Billing;
- Enterprise Information Management;
- IT Infrastructure;
- Project Delivery & Performance;
- Science & System Performance; and
- Asset Information Management.

Investments in 2023 address several of SPU's key initiatives, including:

- Financial Management and Internal Controls;
- Operational Excellence and Performance Management;
- An Easy and Engaged Customer Experience;
- Data-driven Decision Support; and

**2023-2028 Adopted Capital Improvement Program**

- Project Delivery/Project Controls.

In 2023, SPU will continue focusing its technology spending on the highest priority business needs. These projects would primarily be within the Customer Contact and Billing Program, the Project Delivery and Performance Program, and the IT Infrastructure Program.

With the Customer Contact and Billing Upgrade project already in place, and the Utilities Customer Self-Service Portal project expected completion in Q322, the next major projects for SPU within the Customer Contact and Billing Program include, the Unified Communications Project, and the Utilities Assistance Program. Other projects slated would be the Integrated Security System project, Development Systems Integration Phase 2 project, Construction Contract Management project along with other projects that have been deferred in previous years.

### **CIP Revenue Sources**

Much of the SWF CIP is funded through bond proceeds and current cash contributions, the mix of which is determined by SWF financial policies, the overall financial health of the SWF, and the best value and equity to ratepayers. SPU is not planning any SWF bond issuances and will use current cash contributions and existing cash on hand to pay for the CIP. Cash contributions to construction and repayment of debt come from rate-based charges to customers whose solid waste services are handled by the City's solid waste infrastructure and programs.

SPU also actively seeks grants, low-interest loans, and other funding sources whenever possible and prudent. The Solid Waste Utility is currently in the middle of a capital-intensive historic landfill remediation process and the South Recycling Center project. These projects are the primary drivers of CIP spending and have required rate increases for financing.

### **Summary of Upcoming Budget Issues and Challenges**

Solid Waste faces logistical and financial issues as it reconstructs its primary facilities and addresses site cleanup efforts.

- Logistics: SWF is focusing on developing the South Recycling Center and must continue to use the site for trailer parking and household hazardous waste collection during construction.
- Financial Challenges: Developing the South Recycling Center along with site remediation efforts puts considerable short-term financial strain on the SWF. While the SWF is funding and building these major projects, it is working to address environmental stewardship by encouraging waste reduction and recycling, which results in declining demand for services.

### **Future Projects/What is on the Horizon**

Once the South Park Landfill cleanup work and South Transfer Station operational improvements are completed, SPU will begin a thorough planning process to guide the future redevelopment of the South Transfer Station campus. The planning will take broader City needs into consideration before selecting a redevelopment scenario. Spending for the future development will be better defined over the next 3-5 years.

### Kent Highlands

<b>Project No:</b>	MC-SU-C2402	<b>BSL Code:</b>	BC-SU-C240B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Rehabilitation & Heavy Equipment
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Kent Highlands
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Outside City of Seattle
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This program funds compliance activities related to the Kent Highlands landfill closure project. These activities include environmental studies to demonstrate the effectiveness of the Kent Highlands landfill closure project, as well as various landfill improvements. The environmental studies are required under the existing Consent Decree with the State Department of Ecology and validate that current environmental controls are effective and reduce the likelihood of additional capital or O&M expenditures. The landfill improvements include replacement of existing flares, drainage improvements, groundwater protection, water treatment and mitigating earthquake risks associated with steep slopes.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Solid Waste Rates	667	250	250	50	50	50	100	100	1,517
<b>Total:</b>	<b>667</b>	<b>250</b>	<b>250</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>1,517</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Solid Waste Fund	667	250	250	50	50	50	100	100	1,517
<b>Total:</b>	<b>667</b>	<b>250</b>	<b>250</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>1,517</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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**Midway Landfill**

<b>Project No:</b>	MC-SU-C2403	<b>BSL Code:</b>	BC-SU-C240B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Rehabilitation & Heavy Equipment
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Kent
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Outside City of Seattle
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This program funds compliance activities related to the Midway landfill closure project. These activities include environmental studies to demonstrate the effectiveness of the Midway landfill closure project. The studies are required under the existing Consent Decree with the State Department of Ecology and validate that current environmental controls are effective and reduce the likelihood of additional capital or O&M expenditures. The flare improvements are also a regulatory requirement. To ensure that SPU maintains regulatory compliance, a smaller flare or new technology will be required. The current telemetry used to monitor the environmental control systems at the Kent Highlands Landfill and the Midway Landfill, both Superfund sites, are nearly obsolete and the equipment is no longer supported. In addition, the current system only transmits alarm conditions and does not have any data acquisition functionality. This program funds a replacement system that will allow remote data acquisition as well as alarm functionality. The largest effort under this program is the Midway landfill improvement project that funds removal of waste in the WSDOT Right of Way to allow construction of two additional lanes on I-5 and the Sound Transit Federal Way Link project. This is a joint project involving Sound Transit, WSDOT and SPU it is regulated by the Department of Ecology under a Consent Decree Amendment.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Solid Waste Rates	12,860	870	250	1,700	50	50	50	150	15,980
Water Rates	-	1,500	-	-	-	-	-	-	1,500
<b>Total:</b>	<b>12,860</b>	<b>2,370</b>	<b>250</b>	<b>1,700</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>150</b>	<b>17,480</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Solid Waste Fund	12,860	2,370	250	1,700	50	50	50	150	17,480
<b>Total:</b>	<b>12,860</b>	<b>2,370</b>	<b>250</b>	<b>1,700</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>150</b>	<b>17,480</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Miscellaneous Station Improvement

<b>Project No:</b>	MC-SU-C2303	<b>BSL Code:</b>	BC-SU-C230B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	New Facilities
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Multiple
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This project provides modifications, upgrades, and wear replacement for the two new City Transfer Stations. The new facilities will require periodic capital upgrades and replacement to extend the useful life of these assets. Examples of this work include replacement of the wear surface on the STS tipping floor, replacement of the large refuse compactors and replacement of HVAC/Life Safety components.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Solid Waste Rates	5,542	4,656	8,478	2,600	500	500	500	500	23,275
<b>Total:</b>	<b>5,542</b>	<b>4,656</b>	<b>8,478</b>	<b>2,600</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>23,275</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Solid Waste Fund	5,542	4,656	8,478	2,600	500	500	500	500	23,275
<b>Total:</b>	<b>5,542</b>	<b>4,656</b>	<b>8,478</b>	<b>2,600</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>23,275</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

### North Transfer Station Rebuild

<b>Project No:</b>	MC-SU-C2306	<b>BSL Code:</b>	BC-SU-C230B
<b>Project Type:</b>	Discrete	<b>BSL Name:</b>	New Facilities
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	N. 34th St.
<b>Current Project Stage:</b>	Stage 6 - Closeout	<b>Council District:</b>	Council District 4
<b>Start/End Date:</b>		<b>Neighborhood District:</b>	Lake Union
<b>Total Project Cost:</b>	\$111,015	<b>Urban Village:</b>	Not in an Urban Village

The project constructs a new North Recycling and Disposal Station to replace the existing, aging facility. The new facility will meet customer and employee needs, regulatory requirements, and waste management goals for at least the next 50 years. Safety, operational, and capacity concerns at the existing transfer station necessitate building a new facility. The new facility will benefit the public by providing reliable transfer of solid waste from the City and preventing the accumulation of waste and unsanitary conditions within the City.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Solid Waste Rates	110,234	-	-	-	-	-	-	-	110,234
<b>Total:</b>	<b>110,234</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>110,234</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Solid Waste Fund	110,234	-	-	-	-	-	-	-	110,234
<b>Total:</b>	<b>110,234</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>110,234</b>

**O&M Impacts:** Any O&M needed as a result of this project is included in SPU's Operating Budget.

\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars



### South Park Development

<b>Project No:</b>	MC-SU-C2304	<b>BSL Code:</b>	BC-SU-C230B
<b>Project Type:</b>	Discrete	<b>BSL Name:</b>	New Facilities
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	8100 2nd Ave S
<b>Current Project Stage:</b>	Stage 3 - Design	<b>Council District:</b>	Council District 1
<b>Start/End Date:</b>	2007 - 2026	<b>Neighborhood District:</b>	Greater Duwamish
<b>Total Project Cost:</b>	\$22,377	<b>Urban Village:</b>	Greater Duwamish

This project studies, plans, designs and constructs remediation of the historic South Park Landfill site to minimize environmental impacts. SPU owns a portion of the site on which the landfill once operated, and was a historic operator of the landfill at one time. This project will meet the requirements of a Consent Decree with the Washington Department of Ecology for remediation of the historic South Park Landfill. This project is tied to the STS 2 project and some redesign of remedial elements will be required and construction has been delayed three years to 2023.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Solid Waste Rates	5,994	600	300	4,000	9,000	1,000	500	-	21,394
<b>Total:</b>	<b>5,994</b>	<b>600</b>	<b>300</b>	<b>4,000</b>	<b>9,000</b>	<b>1,000</b>	<b>500</b>	<b>-</b>	<b>21,394</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Solid Waste Fund	5,994	600	300	4,000	9,000	1,000	500	-	21,394
<b>Total:</b>	<b>5,994</b>	<b>600</b>	<b>300</b>	<b>4,000</b>	<b>9,000</b>	<b>1,000</b>	<b>500</b>	<b>-</b>	<b>21,394</b>

**O&M Impacts:** Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

### South Recycling Center

<b>Project No:</b>	MC-SU-C2302	<b>BSL Code:</b>	BC-SU-C230B
<b>Project Type:</b>	Discrete	<b>BSL Name:</b>	New Facilities
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	8100 2nd AVE S
<b>Current Project Stage:</b>	Stage 3 - Design	<b>Council District:</b>	Council District 1
<b>Start/End Date:</b>	2006 - 2025	<b>Neighborhood District:</b>	Greater Duwamish
<b>Total Project Cost:</b>	\$43,202	<b>Urban Village:</b>	Greater Duwamish

SPU postponed South Transfer Station phase construction and a smaller project is proceeding to complete cleanup work at the old South Park Landfill. SPU decided to postpone development plans (including the construction of the recycling facility) to allow a more holistic evaluation of future needs and job opportunities that best support our zero-waste vision. A recycling facility may still be included in the future plans, but partial development of the site at this time could severely limit what we can do in the future. The scope of the project has been reduced to only include the remediation of the South Park Landfill (required under a Consent Decree), minimal operational improvements, and a path along 5th Avenue to mitigate the street vacation at the new South Transfer Station. The reduced STS2 project will be designed during 2021-2022 and constructed in 2023.

Future site development plans will happen over the next 5 years in a parallel process.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Solid Waste Rates	7,919	2,400	1,500	2,177	14,016	8,269	500	200	36,982
Water Rates	-	(1,500)	-	-	-	-	-	-	(1,500)
<b>Total:</b>	<b>7,919</b>	<b>900</b>	<b>1,500</b>	<b>2,177</b>	<b>14,016</b>	<b>8,269</b>	<b>500</b>	<b>200</b>	<b>35,482</b>

  

Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Solid Waste Fund	7,919	900	1,500	2,177	14,016	8,269	500	200	35,482
<b>Total:</b>	<b>7,919</b>	<b>900</b>	<b>1,500</b>	<b>2,177</b>	<b>14,016</b>	<b>8,269</b>	<b>500</b>	<b>200</b>	<b>35,482</b>

**O&M Impacts:** Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

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### SW Comprehensive Plan Update

<b>Project No:</b>	MC-SU-C2407	<b>BSL Code:</b>	BC-SU-C240B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Rehabilitation & Heavy Equipment
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Citywide
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

A Seattle Solid Waste Management Plan is required by Washington State Code. The plan must be updated every five years. The Comprehensive Plan guides the City's solid waste management.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Solid Waste Rates	697	100	50	50	50	150	250	-	1,347
<b>Total:</b>	<b>697</b>	<b>100</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>150</b>	<b>250</b>	<b>-</b>	<b>1,347</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Solid Waste Fund	697	100	50	50	50	150	250	-	1,347
<b>Total:</b>	<b>697</b>	<b>100</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>150</b>	<b>250</b>	<b>-</b>	<b>1,347</b>

**O&M Impacts:** Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

*\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars*



# **Seattle Public Utilities**

## **Water**



## Overview

SPU delivers an average of approximately 124 million gallons of drinking water per day to 1.5 million people and businesses in Seattle and 18 surrounding cities and water districts, plus the Cascade Water Alliance. The water system infrastructure includes:

- The Cedar and South Fork Tolt supply sources, including over 103,000 acres of forested land.
- Three groundwater wells.
- Two primary water treatment plants.
- 11 booster chlorination facilities.
- 325 million gallons of treated water storage.
- 30 pump stations.
- Over 1,900 miles of transmission and distribution system pipelines.
- Almost 200,000 meters and service connections.
- More than 17,000 distribution system valves.
- About 19,000 hydrants.
- Monitoring and control systems; and,
- Various buildings and other related facilities.

In addition to replacing and improving the supply, treatment, transmission and distribution systems, the Water capital program includes investments in watershed stewardship projects, Cedar River Watershed Habitat Conservation Plan implementation, water conservation programs, vehicles, heavy equipment, and technology.

Planned spending in the Water Capital Improvement Program (CIP) is \$756 million over the next six years. Major projects include:

- Water system improvements associated with transportation projects, including Move Seattle, Madison Street Bus Rapid Transit; East Marginal Way Heavy Haul Corridor; Roosevelt Eastlake Rapid Ride.
- Operational and Regional Facility construction.
- Seismic upgrades of the Eastside and Riverton Reservoirs, the Magnolia Tank, and the Trenton Standpipe
- Replace the floating cover at Bitter Lake Reservoir with a new 21 MG partially buried circular prestressed concrete tank
- Addressing a slide area through which the Tolt Pipelines pass, upstream of the Tolt Treatment Plant; and
- Relicensing the South Fork Tolt Dam under the Federal Energy Regulatory Commission with Seattle City Light

The 2023-2028 Adopted CIP also includes many ongoing core programs, such as improving the distribution and transmission system water mains, valves, meters, steel storage tanks, and pump stations; watershed stewardship and conservation programs; and facilities, vehicles, and heavy equipment investments. In addition, it includes funding for distribution and transmission system seismic improvement programs stemming from the recent completion of SPU's water system seismic study and federally regulated licenses and improvements at the Tolt Dam.

SPU funds Water capital projects through a combination of cash and issuance of bonds. The primary source of cash and debt repayment funds come from sale of water charged to retail and wholesale

customers in the region. SPU completed its 2019 Water System Plan, a Washington Department of Health (WDOH) regulatory requirement. The plan was approved by King County and the Washington Department of Health in 2019. The plan includes many elements as well as providing plans for SPU’s capital needs for the next 20 years.

### Thematic Priorities

The overarching goal of the Water CIP is to ensure that the water system is properly maintained, upgraded, and expanded to reliably deliver high-quality, safe drinking water to customers, protect the environment, and comply with regulations. The primary themes driving the CIP in the next six years are asset preservation, health and human safety, environmental sustainability, and race and social justice.

- SPU is committed to making **asset preservation** investments to create or enhance operational efficiency. SPU uses asset management principles to determine the timing of rehabilitation or replacement of its infrastructure. Projects that fall into this category vary, ranging from water main replacement related to transportation projects to rehabilitation of steel storage facilities.
- SPU’s commitment to **health and human safety** is also addressed through SPU’s reservoir covering projects. Consistent with Ordinance 120899 and required by state regulators, SPU has finished replacing its open finished drinking water reservoirs with underground structures that will improve water quality and system security. Additionally, SPU will complete construction of a new floating cover on the Lake Forest Park reservoir and will begin construction of a new partially buried concrete tank at the Bitter Lake reservoir location to replace the existing floating covers that have reached the end of their useful life. Finally, as a result of a recently completed seismic study, two reservoirs will remain uncovered – Roosevelt and Volunteer – and are disconnected from the drinking water system, filled with treated water and available for emergency storage needs after major emergencies such as earthquakes.
- SPU is committed to **environmental sustainability**. This can best be seen in SPU’s responsibilities as outlined in the 50-year Habitat Conservation Plan (HCP), an agreement between local, state, and federal agencies. The HCP seeks to ensure the long-term ecological integrity of the Cedar River Watershed, which supplies the majority of the City’s drinking water. It simultaneously addresses the needs of protected wildlife species in and along the Cedar River. Investments in the regional conservation and low-income conservation programs also help in management of our natural resources, while helping customers reduce their utility bills.
- SPU is also committed to **race and social justice**. One example of this commitment is the Low-Income Water Conservation Program. This ongoing program provides water use efficiency resources to the City’s low-income customers to implement water conservation measures. Typical improvements consist of installing water-efficient fixtures, primarily low water use toilets, but also faucet aerators and common-area efficient clothes washers.



## Project Selection Criteria

SPU identifies candidate capital projects from several sources – planning (e.g., comprehensive plans such as the 2019 Water System Plan, program plans, and asset management plans), external projects and opportunities (such as transportation projects), and emergencies or other unexpected events. Under SPU’s Asset Management approach, projects must be justified through a business case process that establishes that a problem or opportunity is timely and important, and that the proposed solution is superior to alternatives based on a triple bottom line analysis (economic, environmental, and social) of life cycle costs and benefits. The process also recognizes that a project may be a “must do” project (e.g., required by regulation).

SPU prioritizes its capital projects into three categories – Priorities 1, 2 and 3, with 1 being the most important and critical. Some projects are part of an externally driven project. Typically, SPU lacks control over the timing of externally driven projects.

Priority rankings are based on the following set of criteria:

- **Regulatory Mandates, Legal Agreements:** The degree to which a project is driven by federal, state, and local laws, permit and regulatory requirements, and consent decrees; as well as by legal agreements with public and private parties. Examples of highly ranked projects in this category include the reservoir covering programs, the Cedar River Habitat Conservation Program, and the South Fork Tolt relicensing project.
- **External Drivers:** SPU’s responsiveness to, or engagement with, projects of other Departments or Jurisdictions, and the specific mandates of the City Council and Mayor. Examples of highly ranked projects in this category include SR 520 Rest of the West phase and Roosevelt Eastlake Rapid Ride.
- **Infrastructure:** How a project addresses infrastructure conditions or vulnerabilities. Examples of highly ranked projects in this category include the Watermain Rehabilitation, Distribution System Improvements and Tank Improvements programs.
- **Level of Service:** The importance of a project in providing or improving services to customers. Examples of highly ranked projects in this category include the Water Infrastructure – New Taps and Service Renewals programs.
- **Other Factors:** Other important factors include high net present value or cost-effectiveness, social or environmental benefits not otherwise captured, a project already in progress or near completion, limited time opportunity, demonstration projects, community visibility, or outside funding.

Every project is rated against each criterion. Criteria ratings are then considered in determining an overall project priority ranking, using expert judgment (rather than a formula). Priority rankings for the CIP are determined by the leads for each Line of Business (LOB), with review by key internal stakeholders. The ranking scheme and criteria are the same for all LOBs and are approved by the SPU GM/CEO, Asset Management Committee and/or Capital Improvement Plan Board. In addition, regional projects that are cost shared with SPU’s wholesale customers are vetted annually through the Seattle Water System Operating Board, which is a board of representatives who have certain limited authority over policy and

operational matters as they affect the Seattle Regional Water Supply System. Project priority rankings are used to clarify and document which projects are most important (and why), to help determine which projects at the margin will be included or excluded (or deferred) from the CIP, and which projects should receive priority attention if a staff or financial resource constraint should arise.

**CIP Spending by Major Category**

(In '000s; total may not sum due to rounding)

Water Fund	2023	2024	2025	2026	2027	2028	Total
Distribution	\$39,328	\$51,239	\$44,867	\$55,426	\$62,488	\$68,091	\$321,438
Transmission	\$15,411	\$13,625	\$25,986	\$17,807	\$15,064	\$9,136	\$97,029
Watershed Stewardship	\$921	\$325	\$403	\$958	\$425	\$133	\$3,164
Water Quality & Treatment	\$1,868	\$1,975	\$1,659	\$24,350	\$23,999	\$12,769	\$66,621
Water Resources	\$14,059	\$4,857	\$12,314	\$11,313	\$14,325	\$14,274	\$71,142
Habitat Conservation Program	\$2,521	\$999	\$742	\$684	\$232	\$186	\$5,364
Shared Cost Projects	\$34,776	\$47,883	\$32,893	\$17,487	\$15,311	\$15,975	\$164,325
Technology	\$6,006	\$4,221	\$4,221	\$4,221	\$4,221	\$4,221	\$27,111
<b>Grand Total</b>	<b>\$114,890</b>	<b>\$125,124</b>	<b>\$123,085</b>	<b>\$132,245</b>	<b>\$136,064</b>	<b>\$124,784</b>	<b>\$756,193</b>

**Distribution:** Projects and programs in this category relate to rehabilitation and improvements to the City's water mains and appurtenances, water storage tanks, pump stations, and other facilities that are part of the system that distributes treated water throughout the City of Seattle and to retail customers outside of the City.

Changes in the **Distribution BCL** in reflect shifting timelines on tank improvements, with much of the work occurring in the out years of the 6-year capital plan. There are also increased investments in water main extension projects at multiple worksites across the city. In 2024-2028, funding increases to rehabilitate and replace water mains, because more of this large asset class is reaching the end of its service life.

**Transmission:** The purpose of this program category is to rehabilitate and improve the City's large transmission pipelines that bring untreated water to the treatment facilities and convey treated water from the treatment facilities to Seattle and to other local utilities that purchase a portion of SPU's supply for their customers.

There are limited changes in the **Transmission BCL** in 2023, although two projects are being delayed due to coordination with the SR520 improvements by the State, and property rights issues. Increases in 2025-2028 are caused by initiation of the new transmission system seismic improvements program.

**Watershed Stewardship:** Projects and programs in this category improve protection of our sources of drinking water, provide habitat protection and restoration, sustain the environment, and enhance

environmental quality, both locally and regionally. Most of the projects in this program category are located within the Cedar and Tolt River municipal watersheds.

- The Cedar River Municipal Watershed is 90,638 acres of land owned by the City of Seattle and provides about 65% of the drinking water used by 1.5 million people in the greater Seattle area supplied by SPU. The City of Seattle is required by law to maintain a clean drinking water supply. To that end, the City restricts public access and management is guided by a Habitat Conservation Plan. The Cedar River Watershed is an unfiltered surface water supply which produces some of the best water in the world.
- The South Fork Tolt River Watershed is the second supply watershed in SPU’s freshwater supply system and provides roughly 35% of SPU’s drinking water supply. Located in the foothills of the Cascades in east King County, it first came on-line in 1964, and since 1989 has also supported a small Seattle City Light hydro-electric facility. The South Fork Tolt Municipal Watershed is approximately 12,000 acres, two-thirds of which are owned and managed by the City of Seattle. The Tolt Treatment Facilities, which includes filtration, can provide up to 120 million gallons of drinking water per day.

In the **Watershed Stewardship BCL** new projects will replace failing culverts with larger fish passable culverts at road crossings in the Cedar River Municipal Watershed (CRMW). The CRMW Fish Passage infrastructure program is required to satisfy State regulatory requirements for fish passage. In addition to providing fish passage, this program will reduce the potential for excessive sedimentation, catastrophic infrastructure (i.e. forest road) failure, and impacts to drinking water quality.

**Water Quality and Treatment:** The purpose of this program category is to construct, rehabilitate or improve water treatment facilities, and cover the remaining open water reservoirs. State and federal drinking water regulations and public health protection are key drivers of investments in this program category. To comply with regulations, SPU has invested hundreds of millions of dollars in building two new primary treatment facilities and covering two and burying five reservoirs that contain already treated water that is distributed directly to Seattle retail and wholesale customers for drinking purposes.

The focus in the **Water Quality & Treatment BCL** is completion of the Lake Forest Park Reservoir floating cover replacement, and in later CIP years, the Bitter Lake Reservoir Project. The plan for the Bitter Lake Reservoir is construction of a new 21 MG partially buried circular prestressed concrete tank instead of the new floating cover previously considered. Construction of the Lake Forest Park Reservoir replacement cover will be completed in 2022, and the Bitter Lake Reservoir Project is targeted to begin construction in 2026.

**Water Resources:** The purpose of this program category is to manage our water resources to meet anticipated demands and in-stream flow requirements – the amount of water provided to the river to support aquatic habitat, wetlands, riparian vegetation, and water quality – and to promote residential and commercial water conservation. The requirements for in-stream flows are detailed in agreements with state and federal agencies and include provisions for minimum stream flows in the Cedar and South Fork Tolt Rivers. Examples of the types of projects in this category include the Dam Safety Program, Sockeye Broodstock Weir and other improvements associated with the hatchery and fish ladder, and relicensing of the South Fork Tolt Dam to secure ongoing operations of that water supply source.

Increases in the **Water Resources BCL** in 2023 are due to dam safety projects such as the Tolt Early Warning System Upgrade and Tolt Debris Boom, which are both to comply with the Federal Energy Regulatory Commission (FERC). Increases in outyears of the 6-year CIP are also due to FERC relicensing requirements at the South Fork Tolt Dam, which SPU will be partnering on with Seattle City Light.

**Habitat Conservation Program:** This program category includes projects and programs directly related to implementation of the Cedar River Watershed Habitat Conservation Plan. The Habitat Conservation Plan benefits the utility and the ratepayers it serves by providing legal certainty under the Endangered Species Act for the City’s continued operations within the Cedar River Watershed, which supplies 65% of the SPU’s drinking water. The Habitat Conservation Program requires SPU to invest \$100 million over 50 years, with \$60 million in the first decade, on approximately 30 capital projects and 60 O&M activities in three areas: management of in-stream flows for people and fish, forest and land conservation activities, and mitigation for the blockage of salmon and steelhead fish as they return to the Cedar River to spawn. The Water Fund’s CIP projects in this area are grouped into eight categories: road improvements and decommissioning, stream and riparian restoration, upland forest restoration, Landsburg fish passage, Cedar River sockeye hatchery, improvements to the Ballard Locks for fish passage and water conservation, fish habitat protection and restoration in the lower Cedar River below the municipal watershed boundary, and evaluation of Cedar permanent dead storage in Chester Morse Lake.

Decreases in the **Habitat Conservation Program BCL** in later CIP years are due to the near completion of the Downstream Fish Habitat program and the transitioning of the watershed road decommissioning and fish passage programs to the Watershed Stewardship BCL (see notes under C130 – Watershed Stewardship). These programs were all under the City’s Cedar River Habitat Conservation Program (HCP) and are close to complete in meeting the City’s commitments in these program areas.

**Shared Cost Projects:** This program includes individual capital improvement projects which typically benefit multiple lines of business (e.g. the water line of business and the drainage and wastewater line of business) and whose costs are "shared," or paid for, by more than one of SPU's utility funds. For the next six years, the Shared Cost program includes funding for several interdepartmental programs and projects including Move Seattle, Alaskan Way Viaduct and Seawall Replacement. Funding is also included for SPU’s Heavy Equipment Purchases and several smaller projects.

There have been shifts in the **Shared Cost Projects BCL** primarily due to the East Marginal Way Heavy Haul Corridor and the Roosevelt Eastlake Rapid Ride delays and deferral of the Center City Streetcar beyond this 6-year CIP.

**Technology:** The Technology capital portfolio is managed in six program areas, which provide a department-wide view of technology investments to address SPU’s strategic, business, and City-wide priorities. These areas are:

- Customer Contact and Billing
- Enterprise Information Management
- IT Infrastructure
- Project Delivery & Performance
- Science & System Performance
- Asset Information Management

Investments in 2023 address several of SPU’s key initiatives, including:

- Financial Management and Internal Controls
- Operational Excellence and Performance Management
- An Easy and Engaged Customer Experience
- Data-driven Decision Support
- Project Delivery/Project Controls

In 2023, SPU will continue focusing its technology spending on the highest priority business needs. These projects would primarily be within the Customer Contact and Billing Program, the Project Delivery and Performance Program, and the IT Infrastructure Program.

With the Customer Contact and Billing Upgrade project already in place, and the Utilities Customer Self-Service Portal project expected completion in Q322, the next major projects for SPU within the Customer Contact and Billing Program include, the Unified Communications Project, and the Utilities Assistance Program. Other projects slated would be the Integrated Security System project, Development Systems Integration Phase 2 project, Construction Contract Management project along with other projects that have been deferred in previous years.

**CIP Revenue Sources**

SPU’s Water CIP is funded largely by Water ratepayers. About 75% of the Water Fund’s Operating revenues come from retail ratepayers, split approximately evenly between residential and commercial customers. Another 20% of the Water Fund’s overall revenues come from wholesale purveyors who serve surrounding jurisdictions. The remaining 5% consists of non-rate revenue, which include such items as tap fees received. SPU issues bonds, serviced by ratepayers, which in the current period covers 65% of the CIP, with the remainder funded by available cash, including rate payer revenue.

SPU actively seeks grants, low interest loans, and other funding sources whenever possible. And, as mentioned above, SPU also receives payments from developers that are intended to offset the cost of installing new taps when they connect newly constructed buildings to SPU watermain. These “tap fees” are a volatile revenue source, trending with the construction-related sectors of the economy.

**Summary of Upcoming Budget Issues and Challenges**

These important issues create financial challenges and opportunities for the Water Fund in the future.

Water Conservation: The City of Seattle, Seattle residents and businesses, and Seattle’s wholesale water partners have worked together to reduce water consumption. As a result, consumption has declined since the 1980’s and is projected to flatten out. In 2021, consumption was 30% below the peak of 1984, despite serving a larger population. Seattle currently has some of the lowest per capita water consumption in the nation. While this accomplishment helps contribute to a sustainable future for the region, it puts financial pressure on the utility because fixed costs, including the costs of the CIP, need to be distributed across fewer units of water sold. This trend also puts pressure on SPU management and employees to deliver services as efficiently as possible. In the future, it may also influence water rate design.

Transitioning from Major Projects toward Asset Management: The Water Fund is transitioning from a

**2023-2028 Adopted Capital Improvement Program**

period of building large capital projects, in response to regulatory requirements, to a time of physical infrastructure rehabilitation. Past investments include water treatment facilities for the Tolt and Cedar water supplies, coverings for seven open reservoirs in response to federal/state regulations, construction of a second pipeline for the Tolt system, and investments to meet federal requirements embodied in the Cedar River Watershed Habitat Conservation Plan. These investments helped secure the supply and distribution of high-quality drinking water and provide appropriate stewardship of the watersheds consistent with federal and state requirements.

The City of Seattle is now better positioned than many water utilities in the nation in terms of regulatory compliance. Residents, businesses and rate payers will benefit from these investments for years to come. Although the focus will shift from major projects to physical infrastructure rehabilitation, the utility will be paying debt service over the next several budget cycles on the bonds that were issued for these major projects. Against the backdrop of these trends, the 2023-2028 Water CIP has been developed to:

- Provide for water system modifications associated with various Seattle and regional transportation projects.
- Recognize the need to invest in the water system’s resiliency in a major earthquake event and continue with strategic investments to reduce risk.
- Preserve the transmission and distribution systems through careful investment in aging infrastructure renewal,
- Provide stewardship of the watersheds, to ensure a reliable source of high-quality drinking water.
- Comply with federal and state regulations governing water quality, system reliability, and habitat protection in the watersheds in which SPU operates; and
- Prioritize projects to deliver on infrastructure and regulatory requirements within the limited resources of the Water Fund.

### **Future Projects/What is on the Horizon**

The Water CIP has completed a multi-decade period of investments in major infrastructure projects. These projects have positioned SPU to meet drinking water quality and environmental regulations. Projects have included the Tolt and Cedar Water Treatment Facilities, Tolt Pipeline 2, Reservoir Covering Program, the Cedar River Watershed HCP, the Chester Morse Lake Pump Plant Project, and a new Water Quality Laboratory. SPU has also made a major reinvestment in the Supervisory Control and Data Acquisition System which is used to monitor and control the regional and retail water system. However, these investments have also led to increasing debt service payments that constrain future budgets.

The 6-year CIP funds the work to invest in critical projects allowing continued reliable service of drinking water to the region’s 1.5 million customers. Emphasis will be on asset management-based rehabilitation and replacement of distribution system infrastructure (e.g., mains, valves, hydrants, meters), as well as water system infrastructure improvements related to transportation projects, such as the Move Seattle Levy, seismic upgrades for critical infrastructure following the 2018 water system seismic study, and dam safety projects.

### Ballard Locks Improvements

<b>Project No:</b>	MC-SU-C1606	<b>BSL Code:</b>	BC-SU-C160B
<b>Project Type:</b>	Discrete	<b>BSL Name:</b>	Habitat Conservation Program
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	NW 54th St 30th Ave NW
<b>Current Project Stage:</b>	Stage 5 - Construction	<b>Council District:</b>	Council District 6
<b>Start/End Date:</b>	2000 - 2025	<b>Neighborhood District:</b>	Ballard
<b>Total Project Cost:</b>	\$1,302	<b>Urban Village:</b>	Ballard-Interbay Northend

This project provides improvements at the Ballard Locks to upgrade conditions for salmon. Improvements are focused on conserving the amount of freshwater needed to operate the locks to reduce the demand for freshwater from the Cedar River and increase the availability of freshwater for salmon. This project is a requirement of the Cedar River Habitat Conservation Plan (HCP).

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Rates	502	165	-	-	-	-	-	-	667
<b>Total:</b>	<b>502</b>	<b>165</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>667</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Fund	502	165	-	-	-	-	-	-	667
<b>Total:</b>	<b>502</b>	<b>165</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>667</b>

**O&M Impacts:** Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

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### Beacon Reservoir Seismic

<b>Project No:</b>	MC-SU-C1408	<b>BSL Code:</b>	BC-SU-C140B
<b>Project Type:</b>	Discrete	<b>BSL Name:</b>	Water Quality & Treatment
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	S Spokane St and Beacon Ave S
<b>Current Project Stage:</b>	Stage 5 - Construction	<b>Council District:</b>	Council District 2
<b>Start/End Date:</b>	2001 - 2019	<b>Neighborhood District:</b>	Greater Duwamish
<b>Total Project Cost:</b>	\$11,601	<b>Urban Village:</b>	Not in an Urban Village

This project includes Seismic Retrofits at Beacon Reservoir using the Soil-Structure Interaction Seismic Analysis approach for design to determine its seismic performance during ground shaking and to assess whether or not a seismic deficiency exists.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Rates	11,342	-	-	-	-	-	-	-	11,342
<b>Total:</b>	<b>11,342</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>11,342</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Fund	11,342	-	-	-	-	-	-	-	11,342
<b>Total:</b>	<b>11,342</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>11,342</b>

**O&M Impacts:** Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

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### Cathodic Protection

<b>Project No:</b>	MC-SU-C1208	<b>BSL Code:</b>	BC-SU-C120B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Transmission
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Citywide
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program installs corrosion protection systems that prevent external corrosion of water transmission pipelines located in Seattle and throughout King County. The cathodic protection systems extend the life of buried pipelines made of ductile iron, steel, and concrete cylinder pipe.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Rates	4,202	3,410	3,616	1,314	3,084	662	4,054	576	20,917
<b>Total:</b>	<b>4,202</b>	<b>3,410</b>	<b>3,616</b>	<b>1,314</b>	<b>3,084</b>	<b>662</b>	<b>4,054</b>	<b>576</b>	<b>20,917</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Fund	4,202	3,410	3,616	1,314	3,084	662	4,054	576	20,917
<b>Total:</b>	<b>4,202</b>	<b>3,410</b>	<b>3,616</b>	<b>1,314</b>	<b>3,084</b>	<b>662</b>	<b>4,054</b>	<b>576</b>	<b>20,917</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Cedar Bridges

<b>Project No:</b>	MC-SU-C1307	<b>BSL Code:</b>	BC-SU-C130B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Watershed Stewardship
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Cedar River Watershed
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Outside City of Seattle
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program replaces aging bridges and related structures, such as abutments, asphalt approaches, and guardrails in the Cedar River Watershed. This project improves aging bridge assets on priority roads in the watershed transportation system to provide City employees, City contractors, and visitors with safe and adequate access to City water supply and hydroelectric assets while minimizing and reducing environmental impacts over time. Work in this program area also maintains compliance with state laws, safety and environmental regulations, and tribal access agreements including Washington Department of Natural Resources (WDNR) forest practice regulations, and Washington Department of Health (DOH) Watershed Protection Plan regulations.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Rates	1,789	830	10	100	135	351	322	25	3,561
<b>Total:</b>	<b>1,789</b>	<b>830</b>	<b>10</b>	<b>100</b>	<b>135</b>	<b>351</b>	<b>322</b>	<b>25</b>	<b>3,561</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Fund	1,789	830	10	100	135	351	322	25	3,561
<b>Total:</b>	<b>1,789</b>	<b>830</b>	<b>10</b>	<b>100</b>	<b>135</b>	<b>351</b>	<b>322</b>	<b>25</b>	<b>3,561</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Chamber Upgrades-Distribution

<b>Project No:</b>	MC-SU-C1137	<b>BSL Code:</b>	BC-SU-C110B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Distribution
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Citywide
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program improves access to water distribution chambers throughout the water distribution system. The replacement and/or enlargement of the entrance to distribution chambers improves the health and safety of workers who need to access chambers and meets Occupational, Safety, and Health Administration (OSHA) and Washington Safety and Health Administration (WSHA) safety and health requirements.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Rates	255	65	5	5	5	5	5	5	350
<b>Total:</b>	<b>255</b>	<b>65</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>350</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Fund	255	65	5	5	5	5	5	5	350
<b>Total:</b>	<b>255</b>	<b>65</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>350</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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**Dam Safety**

<b>Project No:</b>	MC-SU-C1506	<b>BSL Code:</b>	BC-SU-C150B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Water Resources
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Outside City of Seattle
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program maintains the safety of SPU's water supply dams in the Cedar River and South Fork Tolt River Municipal Watersheds and the in-town reservoir dams. Typical improvements may include, but are not limited to, upgrades to the dams' failure warning systems, spillways, outlet works, piping, and other civil, mechanical, and structural systems. This program ensures the continuing safe functioning, operation and monitoring of SPU's water supply dams and associated facilities per Federal Energy Regulatory Commission (FERC), state and local regulations, and SPU requirements to prevent loss of life and/or property damage and loss of SPU's ability to deliver reliable drinking water supply to its customers.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Rates	(1)	-	-	-	-	-	-	-	(1)
Water Rates	8,107	5,471	10,985	1,198	5,509	5,715	10,080	10,818	57,883
<b>Total:</b>	<b>8,105</b>	<b>5,471</b>	<b>10,985</b>	<b>1,198</b>	<b>5,509</b>	<b>5,715</b>	<b>10,080</b>	<b>10,818</b>	<b>57,882</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Fund	(1)	-	-	-	-	-	-	-	(1)
Water Fund	8,107	5,471	10,985	1,198	5,509	5,715	10,080	10,818	57,883
<b>Total:</b>	<b>8,105</b>	<b>5,471</b>	<b>10,985</b>	<b>1,198</b>	<b>5,509</b>	<b>5,715</b>	<b>10,080</b>	<b>10,818</b>	<b>57,882</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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**Distribution Infrastructure**

<b>Project No:</b>	MC-SU-C1138	<b>BSL Code:</b>	BC-SU-C110B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Distribution
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Citywide
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program provides funding for modifications and relocations of existing Distribution System assets resulting from third party project impacts to Distribution System infrastructure located in the right-of-way or on public property. The costs are recovered from third parties and primarily other public utilities and agencies through Memorandums of Agreement and standard charges. This program covers all Distribution System modifications and relocations that are funded by third parties excluding Water main Extension project projects. The benefit of this project is accommodation of third party development by relocating or modifying existing Distribution System infrastructure, while retaining a Distribution System that continues to provide cost effective service to the ratepayer.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Rates	617	117	120	122	124	127	129	133	1,490
<b>Total:</b>	<b>617</b>	<b>117</b>	<b>120</b>	<b>122</b>	<b>124</b>	<b>127</b>	<b>129</b>	<b>133</b>	<b>1,490</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Fund	617	117	120	122	124	127	129	133	1,490
<b>Total:</b>	<b>617</b>	<b>117</b>	<b>120</b>	<b>122</b>	<b>124</b>	<b>127</b>	<b>129</b>	<b>133</b>	<b>1,490</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Distribution System Improvements

<b>Project No:</b>	MC-SU-C1128	<b>BSL Code:</b>	BC-SU-C110B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Distribution
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Citywide
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program improves service reliability, pressure, capacity, and fire flow in the City's water distribution system. Typical improvements may include, but are not limited to, booster pump station installation, creation of new service zones, and tank elevation or replacement, as well as additional water main pipelines and pressure reducing valves. These improvements to service levels meet Washington Department of Health (DOH) regulations and SPU's Distribution System Pressure Policy to provide greater than 20 psi service pressure. These improvements provide higher flow of water for fire protection which improves public safety and results in smaller and shorter fires.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Rates	475	2,498	1,000	2,050	2,712	2,003	4,000	4,000	18,738
<b>Total:</b>	<b>475</b>	<b>2,498</b>	<b>1,000</b>	<b>2,050</b>	<b>2,712</b>	<b>2,003</b>	<b>4,000</b>	<b>4,000</b>	<b>18,738</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Fund	475	2,498	1,000	2,050	2,712	2,003	4,000	4,000	18,738
<b>Total:</b>	<b>475</b>	<b>2,498</b>	<b>1,000</b>	<b>2,050</b>	<b>2,712</b>	<b>2,003</b>	<b>4,000</b>	<b>4,000</b>	<b>18,738</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Distribution System In-Line Gate Valve

<b>Project No:</b>	MC-SU-C1136	<b>BSL Code:</b>	BC-SU-C110B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Distribution
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Citywide
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program replaces line valves in the water distribution system throughout the City of Seattle that fail or are obsolete due to age or lack of replacement parts. The replacement of these gate valves extends the useful life of the water main and restores the performance of the water distribution system. This ongoing program also adds valves within the system to enhance system performance, enhance operational control, and reduce the number of customers whose service is interrupted during a water main shut down.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Rates	2,084	484	160	160	160	160	160	160	3,527
<b>Total:</b>	<b>2,084</b>	<b>484</b>	<b>160</b>	<b>160</b>	<b>160</b>	<b>160</b>	<b>160</b>	<b>160</b>	<b>3,527</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Fund	2,084	484	160	160	160	160	160	160	3,527
<b>Total:</b>	<b>2,084</b>	<b>484</b>	<b>160</b>	<b>160</b>	<b>160</b>	<b>160</b>	<b>160</b>	<b>160</b>	<b>3,527</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Distribution System Seismic Improvements

<b>Project No:</b>	MC-SU-C1139	<b>BSL Code:</b>	BC-SU-C110B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Distribution
<b>Project Category:</b>	Rehabilitation or Restoration	<b>Location:</b>	Citywide
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program upgrade critical distribution facilities that are seismically vulnerable and will remain functional after a major earthquake. Facilities that will be upgraded include water storage reservoirs and tanks, pump stations, pipelines and support facilities. The upgrades are scheduled to occur over a 50-year plus time frame.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Rates	-	850	575	1,750	1,650	250	325	450	5,850
<b>Total:</b>	<b>-</b>	<b>850</b>	<b>575</b>	<b>1,750</b>	<b>1,650</b>	<b>250</b>	<b>325</b>	<b>450</b>	<b>5,850</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Fund	-	850	575	1,750	1,650	250	325	450	5,850
<b>Total:</b>	<b>-</b>	<b>850</b>	<b>575</b>	<b>1,750</b>	<b>1,650</b>	<b>250</b>	<b>325</b>	<b>450</b>	<b>5,850</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars



**Downstream Fish Habitat**

<b>Project No:</b>	MC-SU-C1607	<b>BSL Code:</b>	BC-SU-C160B
<b>Project Type:</b>	Discrete	<b>BSL Name:</b>	Habitat Conservation Program
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Cedar River Watershed
<b>Current Project Stage:</b>	Stage 5 - Construction	<b>Council District:</b>	Outside City of Seattle
<b>Start/End Date:</b>	2008 - 2024	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	\$17,456	<b>Urban Village:</b>	Not in an Urban Village

This project provides protection and restoration of fish habitat along the lower Cedar River, below the City's municipal watershed boundary at the Landsburg Dam and includes both acquisition of habitat lands and habitat restoration on the main stem of the Cedar River. This project is a requirement of the Cedar River Habitat Conservation Plan (HCP).

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Rates	16,672	1,070	1,451	-	-	-	-	-	19,193
<b>Total:</b>	<b>16,672</b>	<b>1,070</b>	<b>1,451</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>19,193</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Fund	16,672	1,070	1,451	-	-	-	-	-	19,193
<b>Total:</b>	<b>16,672</b>	<b>1,070</b>	<b>1,451</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>19,193</b>

**O&M Impacts:** Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

### Environmental Stewardship

<b>Project No:</b>	MC-SU-C1301	<b>BSL Code:</b>	BC-SU-C130B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Watershed Stewardship
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Citywide
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides improvements to facilities and remediation for identified soil contamination at various locations in City watershed areas, railroad right-of-way, and transmission pipelines.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Rates	1,863	292	418	225	268	607	103	108	3,883
<b>Total:</b>	<b>1,863</b>	<b>292</b>	<b>418</b>	<b>225</b>	<b>268</b>	<b>607</b>	<b>103</b>	<b>108</b>	<b>3,883</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Fund	1,863	292	418	225	268	607	103	108	3,883
<b>Total:</b>	<b>1,863</b>	<b>292</b>	<b>418</b>	<b>225</b>	<b>268</b>	<b>607</b>	<b>103</b>	<b>108</b>	<b>3,883</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

*\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars*

### Hatchery Works

<b>Project No:</b>	MC-SU-C1511	<b>BSL Code:</b>	BC-SU-C150B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Water Resources
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Cedar River Watershed
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Outside City of Seattle
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides improvements to the sockeye salmon hatchery, including improvements to the Broodstock collection facility, improvements to the hatchery spring water pumps, improvements to adult holding ponds, and additions for water redundancy. These facilities are a requirement of the Landsburg Mitigation Agreement and the Muckleshoot Settlement Agreement.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Rates	-	-	-	-	-	-	-	-	-
Water Rates	1,642	517	200	750	2,000	-	-	-	5,109
<b>Total:</b>	<b>1,642</b>	<b>517</b>	<b>200</b>	<b>750</b>	<b>2,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5,109</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Fund	-	-	-	-	-	-	-	-	-
Water Fund	1,642	517	200	750	2,000	-	-	-	5,109
<b>Total:</b>	<b>1,642</b>	<b>517</b>	<b>200</b>	<b>750</b>	<b>2,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5,109</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Instream Flow Management Studies

<b>Project No:</b>	MC-SU-C1608	<b>BSL Code:</b>	BC-SU-C160B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Habitat Conservation Program
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Cedar River Watershed
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Outside City of Seattle
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides research and monitoring to examine the effects of instream flows on salmon species in the Cedar River. This ongoing program monitors flow compliance, verifies accretion flows downstream of Landsburg, improves flow-switching criteria, and develops a better understanding of relationships between stream flow and aquatic habitat. This ongoing program is a requirement of the Cedar River Habitat Conservation Plan (HCP).

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Rates	1,918	100	60	65	65	75	-	-	2,283
<b>Total:</b>	<b>1,918</b>	<b>100</b>	<b>60</b>	<b>65</b>	<b>65</b>	<b>75</b>	<b>-</b>	<b>-</b>	<b>2,283</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Fund	1,918	100	60	65	65	75	-	-	2,283
<b>Total:</b>	<b>1,918</b>	<b>100</b>	<b>60</b>	<b>65</b>	<b>65</b>	<b>75</b>	<b>-</b>	<b>-</b>	<b>2,283</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Multiple Utility Relocation

<b>Project No:</b>	MC-SU-C1133	<b>BSL Code:</b>	BC-SU-C110B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Distribution
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Citywide
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program provides funding for necessary modifications to the location and depth of water pipes when they come into conflict with street improvements or other utility projects. The benefit is continued water service to customers while accommodating transportation and other needs in the street right-of-way.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Rates	1	1,500	500	500	500	500	500	500	4,501
<b>Total:</b>	<b>1</b>	<b>1,500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>4,501</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Fund	1	1,500	500	500	500	500	500	500	4,501
<b>Total:</b>	<b>1</b>	<b>1,500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>4,501</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Pump Station Improvements

<b>Project No:</b>	MC-SU-C1135	<b>BSL Code:</b>	BC-SU-C110B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Distribution
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Citywide
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program makes improvements to water pump stations by replacing electric motors, starters, control systems, and other elements. The benefit is improved reliability of water pump stations which in turn reduces the likelihood of large scale water outages.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Rates	2,358	1,296	1,823	4,613	3,957	743	500	500	15,791
<b>Total:</b>	<b>2,358</b>	<b>1,296</b>	<b>1,823</b>	<b>4,613</b>	<b>3,957</b>	<b>743</b>	<b>500</b>	<b>500</b>	<b>15,791</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Fund	2,358	1,296	1,823	4,613	3,957	743	500	500	15,791
<b>Total:</b>	<b>2,358</b>	<b>1,296</b>	<b>1,823</b>	<b>4,613</b>	<b>3,957</b>	<b>743</b>	<b>500</b>	<b>500</b>	<b>15,791</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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**Purveyor Meters Replace-SPU**

<b>Project No:</b>	MC-SU-C1206	<b>BSL Code:</b>	BC-SU-C120B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Transmission
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Regional
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program installs new meters for Seattle's wholesale customers at the customer's request. In addition, existing meters are upgraded to current safety standards. The benefits are accurate metering and billing for Seattle's wholesale customers while meeting their water needs.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Rates	281	249	100	110	120	130	135	140	1,265
<b>Total:</b>	<b>281</b>	<b>249</b>	<b>100</b>	<b>110</b>	<b>120</b>	<b>130</b>	<b>135</b>	<b>140</b>	<b>1,265</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Fund	281	249	100	110	120	130	135	140	1,265
<b>Total:</b>	<b>281</b>	<b>249</b>	<b>100</b>	<b>110</b>	<b>120</b>	<b>130</b>	<b>135</b>	<b>140</b>	<b>1,265</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Regional Water Conservation

<b>Project No:</b>	MC-SU-C1504	<b>BSL Code:</b>	BC-SU-C150B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Water Resources
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Citywide and Regional
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program provides customer incentives for residential, commercial, institutional, and industrial water efficiency capital improvements. Typical examples include, but are not limited to, water efficient toilets and urinals, clothes washers, landscape irrigation devices, upgrades in industrial process water, and replacing water-cooled equipment with air-cooled versions. The program benefits both existing and future ratepayers. Water conservation provides low-cost options for meeting potential challenges from climate change, managing Seattle's drinking water resources, and customer efficiency and potential cost savings on water bills.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Rates	27,140	1,406	983	981	951	1,042	1,060	1,085	34,649
<b>Total:</b>	<b>27,140</b>	<b>1,406</b>	<b>983</b>	<b>981</b>	<b>951</b>	<b>1,042</b>	<b>1,060</b>	<b>1,085</b>	<b>34,649</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Fund	27,140	1,406	983	981	951	1,042	1,060	1,085	34,649
<b>Total:</b>	<b>27,140</b>	<b>1,406</b>	<b>983</b>	<b>981</b>	<b>951</b>	<b>1,042</b>	<b>1,060</b>	<b>1,085</b>	<b>34,649</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Replace Air Valve Chambers

<b>Project No:</b>	MC-SU-C1209	<b>BSL Code:</b>	BC-SU-C120B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Transmission
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Citywide
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program improves access to the chambers located throughout the transmission water system. The replacement and enlargement of the entrance to transmission chambers increase the safety for workers that need to enter the chambers twice per year.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Rates	1,109	382	50	150	155	160	165	170	2,340
<b>Total:</b>	<b>1,109</b>	<b>382</b>	<b>50</b>	<b>150</b>	<b>155</b>	<b>160</b>	<b>165</b>	<b>170</b>	<b>2,340</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Fund	1,109	382	50	150	155	160	165	170	2,340
<b>Total:</b>	<b>1,109</b>	<b>382</b>	<b>50</b>	<b>150</b>	<b>155</b>	<b>160</b>	<b>165</b>	<b>170</b>	<b>2,340</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Reservoir Covering-Bitter Lake

<b>Project No:</b>	MC-SU-C1419	<b>BSL Code:</b>	BC-SU-C140B
<b>Project Type:</b>	Discrete	<b>BSL Name:</b>	Water Quality & Treatment
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	N 143rd St and Linden Ave N
<b>Current Project Stage:</b>	Stage 3 - Design	<b>Council District:</b>	Council District 5
<b>Start/End Date:</b>	2013 - 2025	<b>Neighborhood District:</b>	Northwest
<b>Total Project Cost:</b>	\$45,094	<b>Urban Village:</b>	Not in an Urban Village

This project addresses the need for a new cover on Bitter Lake Reservoir once the existing floating cover has reached the end of its useful life. Replacing the existing structure with a new hard covered structure within the same footprint will be one of the options considered. A new cover will be designed and constructed to improve and maintain the water quality protection and security enhancement functions of the existing cover.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Rates	810	1,200	1,558	1,567	1,409	24,100	23,999	12,769	67,412
<b>Total:</b>	<b>810</b>	<b>1,200</b>	<b>1,558</b>	<b>1,567</b>	<b>1,409</b>	<b>24,100</b>	<b>23,999</b>	<b>12,769</b>	<b>67,412</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Fund	810	1,200	1,558	1,567	1,409	24,100	23,999	12,769	67,412
<b>Total:</b>	<b>810</b>	<b>1,200</b>	<b>1,558</b>	<b>1,567</b>	<b>1,409</b>	<b>24,100</b>	<b>23,999</b>	<b>12,769</b>	<b>67,412</b>

**O&M Impacts:** Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

### Reservoir Covering-Lake Forest

<b>Project No:</b>	MC-SU-C1418	<b>BSL Code:</b>	BC-SU-C140B
<b>Project Type:</b>	Discrete	<b>BSL Name:</b>	Water Quality & Treatment
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Lake Forest Park
<b>Current Project Stage:</b>	Stage 3 - Design	<b>Council District:</b>	Outside City of Seattle
<b>Start/End Date:</b>	2013 - 2022	<b>Neighborhood District:</b>	Outside City of Seattle
<b>Total Project Cost:</b>	\$20,519	<b>Urban Village:</b>	Not in an Urban Village

This project addresses the need for a new cover on Lake Forest Park Reservoir once it has reached the end of its useful life. The project will evaluate options for a new cover, including replacing the existing floating Hypolan cover with a similar design. A new cover will be designed and constructed to maintain and improve the water quality protection and security enhancement functions of the existing cover.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Rates	9,521	2,155	60	158	-	-	-	-	11,894
<b>Total:</b>	<b>9,521</b>	<b>2,155</b>	<b>60</b>	<b>158</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>11,894</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Fund	9,521	2,155	60	158	-	-	-	-	11,894
<b>Total:</b>	<b>9,521</b>	<b>2,155</b>	<b>60</b>	<b>158</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>11,894</b>

**O&M Impacts:** Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

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**Seattle Direct Water Conservation**

<b>Project No:</b>	MC-SU-C1505	<b>BSL Code:</b>	BC-SU-C150B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Water Resources
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Citywide and Direct Service
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program provides water use efficiency resources to the City's low-income customers to implement water conservation measures authorized by Ordinance 120532, adopted in 2001, and supplements funding provided under SPU's Regional Water Conservation project (C1504). Typical improvements consist of, but are not limited to, installing water-efficient fixtures, such as aerating showerheads and faucets, low water use toilets and efficient clothes washers.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Rates	5,307	1,073	566	577	589	601	613	625	9,951
<b>Total:</b>	<b>5,307</b>	<b>1,073</b>	<b>566</b>	<b>577</b>	<b>589</b>	<b>601</b>	<b>613</b>	<b>625</b>	<b>9,951</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Fund	5,307	1,073	566	577	589	601	613	625	9,951
<b>Total:</b>	<b>5,307</b>	<b>1,073</b>	<b>566</b>	<b>577</b>	<b>589</b>	<b>601</b>	<b>613</b>	<b>625</b>	<b>9,951</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Stream & Riparian Restoration

<b>Project No:</b>	MC-SU-C1602	<b>BSL Code:</b>	BC-SU-C160B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Habitat Conservation Program
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Cedar River Watershed
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Outside City of Seattle
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides stream and riparian restoration in the Cedar River Watershed, including large woody debris placement, riparian conifer under-planting, and culvert replacement for fish passage and peak storm flows. This program is a requirement under the Cedar River Habitat Conservation Plan (HCP).

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Rates	4,345	196	177	171	264	22	69	23	5,268
<b>Total:</b>	<b>4,345</b>	<b>196</b>	<b>177</b>	<b>171</b>	<b>264</b>	<b>22</b>	<b>69</b>	<b>23</b>	<b>5,268</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Fund	4,345	196	177	171	264	22	69	23	5,268
<b>Total:</b>	<b>4,345</b>	<b>196</b>	<b>177</b>	<b>171</b>	<b>264</b>	<b>22</b>	<b>69</b>	<b>23</b>	<b>5,268</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

### Tank Improvements

<b>Project No:</b>	MC-SU-C1134	<b>BSL Code:</b>	BC-SU-C110B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Distribution
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Citywide
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program implements water quality, seismic, and other improvements to steel water tanks in Seattle. Functional water tanks are essential to public health protection as they assure that the distribution system is under pressure at all times, even when pump stations or control valves malfunction. Depressurization of the water system may result in siphoning back contaminants from faulty private systems and from the ground into the water pipes.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Rates	6,028	1,736	1,092	7,451	7,988	9,526	2,750	7,100	43,671
<b>Total:</b>	<b>6,028</b>	<b>1,736</b>	<b>1,092</b>	<b>7,451</b>	<b>7,988</b>	<b>9,526</b>	<b>2,750</b>	<b>7,100</b>	<b>43,671</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Fund	6,028	1,736	1,092	7,451	7,988	9,526	2,750	7,100	43,671
<b>Total:</b>	<b>6,028</b>	<b>1,736</b>	<b>1,092</b>	<b>7,451</b>	<b>7,988</b>	<b>9,526</b>	<b>2,750</b>	<b>7,100</b>	<b>43,671</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Tolt Bridges

<b>Project No:</b>	MC-SU-C1308	<b>BSL Code:</b>	BC-SU-C130B
<b>Project Type:</b>	Discrete	<b>BSL Name:</b>	Watershed Stewardship
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Tolt River Watershed
<b>Current Project Stage:</b>	Stage 5 - Construction	<b>Council District:</b>	Outside City of Seattle
<b>Start/End Date:</b>	2004 - 2020	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	\$1	<b>Urban Village:</b>	Not in an Urban Village

This project replaces aging bridges and related structures, such as abutments, asphalt approaches, and guardrails in the Cedar River Watershed. This project improves aging bridge assets on priority roads in the watershed transportation system to provide City employees, City contractors, and visitors with safe and adequate access to City water supply and hydroelectric assets while minimizing and reducing environmental impacts over time. Work in this project also maintains compliance with state laws, safety and environmental regulations, and tribal access agreements including Washington Department of Natural Resources (WDNR) forest practice regulations, and Washington Department of Health (DOH) Watershed Protection Plan regulations.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Rates	258	1,479	492	-	-	-	-	-	2,230
<b>Total:</b>	<b>258</b>	<b>1,479</b>	<b>492</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,230</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Fund	258	1,479	492	-	-	-	-	-	2,230
<b>Total:</b>	<b>258</b>	<b>1,479</b>	<b>492</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,230</b>

**O&M Impacts:** Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

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### Transmission Pipelines Rehab

<b>Project No:</b>	MC-SU-C1207	<b>BSL Code:</b>	BC-SU-C120B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Transmission
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Regional
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program rehabilitates and upgrades water pipes and associated structures in the City of Seattle's transmission system. It assists SPU in providing agreed-upon pressure and flow for wholesale customers, limiting drinking water supply outages, and meeting applicable regulatory requirements of the Washington Department of Health.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Rates	9,286	11,678	10,255	9,507	9,877	1,900	1,850	1,900	56,253
<b>Total:</b>	<b>9,286</b>	<b>11,678</b>	<b>10,255</b>	<b>9,507</b>	<b>9,877</b>	<b>1,900</b>	<b>1,850</b>	<b>1,900</b>	<b>56,253</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Fund	9,286	11,678	10,255	9,507	9,877	1,900	1,850	1,900	56,253
<b>Total:</b>	<b>9,286</b>	<b>11,678</b>	<b>10,255</b>	<b>9,507</b>	<b>9,877</b>	<b>1,900</b>	<b>1,850</b>	<b>1,900</b>	<b>56,253</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Transmission System Seismic Improvements

<b>Project No:</b>	MC-SU-C1210	<b>BSL Code:</b>	BC-SU-C120B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Transmission
<b>Project Category:</b>	Rehabilitation or Restoration	<b>Location:</b>	Citywide
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program upgrade transmission system infrastructure that is seismically vulnerable and will remain functional after a major earthquake. Vulnerable transmission pipelines, reservoirs and pump stations will be upgraded. These upgrades will be completed over a 50-year time period.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Rates	37	1,050	1,350	2,500	12,700	14,900	8,800	6,350	47,687
<b>Total:</b>	<b>37</b>	<b>1,050</b>	<b>1,350</b>	<b>2,500</b>	<b>12,700</b>	<b>14,900</b>	<b>8,800</b>	<b>6,350</b>	<b>47,687</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Fund	37	1,050	1,350	2,500	12,700	14,900	8,800	6,350	47,687
<b>Total:</b>	<b>37</b>	<b>1,050</b>	<b>1,350</b>	<b>2,500</b>	<b>12,700</b>	<b>14,900</b>	<b>8,800</b>	<b>6,350</b>	<b>47,687</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Treatment Facility/Water Quality Improvements

<b>Project No:</b>	MC-SU-C1413	<b>BSL Code:</b>	BC-SU-C140B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Water Quality & Treatment
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides construction of various smaller-scale water quality and treatment facility rehabilitation and improvement projects that may develop on short notice over the course of each year. It enhances SPU's ability to address water system improvement needs that relate to public health protection and drinking water regulatory compliance.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Rates	1,466	2,061	250	250	250	250	-	-	4,527
<b>Total:</b>	<b>1,466</b>	<b>2,061</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>-</b>	<b>-</b>	<b>4,527</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Fund	1,466	2,061	250	250	250	250	-	-	4,527
<b>Total:</b>	<b>1,466</b>	<b>2,061</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>-</b>	<b>-</b>	<b>4,527</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Upland Reserve Forest Restore

<b>Project No:</b>	MC-SU-C1603	<b>BSL Code:</b>	BC-SU-C160B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Habitat Conservation Program
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Cedar River Watershed
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Outside City of Seattle
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides upland forest restoration in the Cedar River Watershed, including ecological and restoration thinning, conifer planting, forest inventory and modeling, and species monitoring. This program is a requirement under the Cedar River Habitat Conservation Plan (HCP).

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Rates	2,879	123	125	128	130	133	-	-	3,517
<b>Total:</b>	<b>2,879</b>	<b>123</b>	<b>125</b>	<b>128</b>	<b>130</b>	<b>133</b>	<b>-</b>	<b>-</b>	<b>3,517</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Fund	2,879	123	125	128	130	133	-	-	3,517
<b>Total:</b>	<b>2,879</b>	<b>123</b>	<b>125</b>	<b>128</b>	<b>130</b>	<b>133</b>	<b>-</b>	<b>-</b>	<b>3,517</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

*\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars*

**Water Infrastructure-Hydrant Replace/Relocate**

<b>Project No:</b>	MC-SU-C1110	<b>BSL Code:</b>	BC-SU-C110B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Distribution
<b>Project Category:</b>	Rehabilitation or Restoration	<b>Location:</b>	Citywide
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program renews or replaces existing hydrants in the City's water distribution system. In general, hydrant renewal or replacement may occur as a result of hydrant malfunction, catastrophic failure due to vehicle damage, or to meet SPU criticality criteria such as spacing, location, cost, opportunity projects, or flow and pressure problems. This program improves access to fire hydrants for the Seattle Fire Department (SFD) and helps to reduce the damage as a result of fire by locating fire hydrants in alternate or additional locations.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Rates	2,505	878	258	271	279	287	296	305	5,080
<b>Total:</b>	<b>2,505</b>	<b>878</b>	<b>258</b>	<b>271</b>	<b>279</b>	<b>287</b>	<b>296</b>	<b>305</b>	<b>5,080</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Fund	2,505	878	258	271	279	287	296	305	5,080
<b>Total:</b>	<b>2,505</b>	<b>878</b>	<b>258</b>	<b>271</b>	<b>279</b>	<b>287</b>	<b>296</b>	<b>305</b>	<b>5,080</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Water Infrastructure-New Hydrants

<b>Project No:</b>	MC-SU-C1112	<b>BSL Code:</b>	BC-SU-C110B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Distribution
<b>Project Category:</b>	New Facility	<b>Location:</b>	Citywide
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program installs new hydrants in the City's water distribution system. In general, new hydrants are installed to meet service requests made by private property owners and to comply with Washington Administrative Code (WAC) or Seattle Fire Department (SFD) requirements. This program also helps to reduce the damage as a result of fire by locating new fire hydrants throughout the City's direct service area.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Rates	347	50	55	58	59	61	63	65	759
<b>Total:</b>	<b>347</b>	<b>50</b>	<b>55</b>	<b>58</b>	<b>59</b>	<b>61</b>	<b>63</b>	<b>65</b>	<b>759</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Fund	347	50	55	58	59	61	63	65	759
<b>Total:</b>	<b>347</b>	<b>50</b>	<b>55</b>	<b>58</b>	<b>59</b>	<b>61</b>	<b>63</b>	<b>65</b>	<b>759</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

**Water Infrastructure-New Taps**

<b>Project No:</b>	MC-SU-C1113	<b>BSL Code:</b>	BC-SU-C110B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Distribution
<b>Project Category:</b>	New Facility	<b>Location:</b>	Citywide
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program installs new drinking water services throughout the City of Seattle. This project provides new connections to existing water mains with no interruption of service to adjacent existing customers, and the installation of metered water service lines from the new tap to the new customer's property lines. This program meets City responsibility for new service connections in the Seattle Municipal Code (SMC) to provide reliable drinking water supply to customers.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Rates	34,459	7,428	8,171	8,579	8,837	9,102	9,375	9,656	95,607
<b>Total:</b>	<b>34,459</b>	<b>7,428</b>	<b>8,171</b>	<b>8,579</b>	<b>8,837</b>	<b>9,102</b>	<b>9,375</b>	<b>9,656</b>	<b>95,607</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Fund	34,459	7,428	8,171	8,579	8,837	9,102	9,375	9,656	95,607
<b>Total:</b>	<b>34,459</b>	<b>7,428</b>	<b>8,171</b>	<b>8,579</b>	<b>8,837</b>	<b>9,102</b>	<b>9,375</b>	<b>9,656</b>	<b>95,607</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

**Water Infrastructure-Service Renewal**

<b>Project No:</b>	MC-SU-C1109	<b>BSL Code:</b>	BC-SU-C110B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Distribution
<b>Project Category:</b>	Rehabilitation or Restoration	<b>Location:</b>	Citywide
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program replaces existing plastic or galvanized water services in the City's water distribution system. Service replacement may occur as a result of leaking, failing, or to reduce damage in case of failure of the water service. This program improves Seattle's water system and extends the life of the water distribution system.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Rates	23,100	6,317	7,126	7,483	7,707	7,938	8,177	8,422	76,270
<b>Total:</b>	<b>23,100</b>	<b>6,317</b>	<b>7,126</b>	<b>7,483</b>	<b>7,707</b>	<b>7,938</b>	<b>8,177</b>	<b>8,422</b>	<b>76,270</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Fund	23,100	6,317	7,126	7,483	7,707	7,938	8,177	8,422	76,270
<b>Total:</b>	<b>23,100</b>	<b>6,317</b>	<b>7,126</b>	<b>7,483</b>	<b>7,707</b>	<b>7,938</b>	<b>8,177</b>	<b>8,422</b>	<b>76,270</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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**Water Infrastructure-Water Main Extensions**

<b>Project No:</b>	MC-SU-C1111	<b>BSL Code:</b>	BC-SU-C110B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Distribution
<b>Project Category:</b>	New Facility	<b>Location:</b>	Citywide
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program assists developers by adding new water mains to the water system in order to serve new residential and commercial developments. Most of the costs are recovered through standard charges. The benefit of this program is that water service is provided to new housing and businesses throughout Seattle.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Rates	6,931	2,323	2,520	2,646	2,726	2,808	2,892	2,979	25,825
<b>Total:</b>	<b>6,931</b>	<b>2,323</b>	<b>2,520</b>	<b>2,646</b>	<b>2,726</b>	<b>2,808</b>	<b>2,892</b>	<b>2,979</b>	<b>25,825</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Fund	6,931	2,323	2,520	2,646	2,726	2,808	2,892	2,979	25,825
<b>Total:</b>	<b>6,931</b>	<b>2,323</b>	<b>2,520</b>	<b>2,646</b>	<b>2,726</b>	<b>2,808</b>	<b>2,892</b>	<b>2,979</b>	<b>25,825</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars



### Water Supply Flexibility Program

<b>Project No:</b>	MC-SU-C1507	<b>BSL Code:</b>	BC-SU-C150B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Water Resources
<b>Project Category:</b>	New Investment	<b>Location:</b>	Multiple
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This program improves water system performance, reliability, and flexibility during severe weather events, supply and infrastructure emergencies, as well as enhancing environmental performance for fish and supporting regulatory and policy compliance in these areas. Project improvements include Tolt Reservoir Temperature and the Overflow Dike in Chester Morse Lake, and may include but are not limited to, dam integrity and alternatives to improved crest control, reservoir water temperature, and water quality management. In addition, the S. Fork Tolt Dam is up for relicensing under the Federal Energy Regulatory Commission (FERC), which expires July 19, 2029. The relicensing process will take 5-7 years depending on the relicensing approach taken with Seattle City Light and FERC. Seattle City Light is the Tolt Dam license holder and will lead the relicensing effort but significant support from SPU is anticipated. Both utilities (SPU/SCL) are establishing CIP numbers budgeted for the relicensing process.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Rates	463	492	1,325	1,350	3,265	3,800	2,050	1,425	14,171
<b>Total:</b>	<b>463</b>	<b>492</b>	<b>1,325</b>	<b>1,350</b>	<b>3,265</b>	<b>3,800</b>	<b>2,050</b>	<b>1,425</b>	<b>14,171</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Fund	463	492	1,325	1,350	3,265	3,800	2,050	1,425	14,171
<b>Total:</b>	<b>463</b>	<b>492</b>	<b>1,325</b>	<b>1,350</b>	<b>3,265</b>	<b>3,800</b>	<b>2,050</b>	<b>1,425</b>	<b>14,171</b>

**O&M Impacts:** Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

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### Water System Dewatering

<b>Project No:</b>	MC-SU-C1205	<b>BSL Code:</b>	BC-SU-C120B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Transmission
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Regional
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program improves structures used to empty the water from larger pipelines when necessary for inspection or repair. The new structures better control the impact of the water discharged to the environment and comply with current environmental regulations.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Rates	23	173	40	45	50	55	60	-	446
<b>Total:</b>	<b>23</b>	<b>173</b>	<b>40</b>	<b>45</b>	<b>50</b>	<b>55</b>	<b>60</b>	<b>-</b>	<b>446</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Fund	23	173	40	45	50	55	60	-	446
<b>Total:</b>	<b>23</b>	<b>173</b>	<b>40</b>	<b>45</b>	<b>50</b>	<b>55</b>	<b>60</b>	<b>-</b>	<b>446</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Water System Plan

<b>Project No:</b>	MC-SU-C1510	<b>BSL Code:</b>	BC-SU-C150B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Water Resources
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This project develops the Water System Plan. This project meets the State requirement that SPU update a water system plan every ten years and submit the plan to the Washington Department of Health (DOH) for approval as a condition of the operating permit for the drinking water system.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Rates	404	-	-	-	-	155	522	321	1,402
<b>Total:</b>	<b>404</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>155</b>	<b>522</b>	<b>321</b>	<b>1,402</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Fund	404	-	-	-	-	155	522	321	1,402
<b>Total:</b>	<b>404</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>155</b>	<b>522</b>	<b>321</b>	<b>1,402</b>

**O&M Impacts:** Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

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### Watermain Rehabilitation

<b>Project No:</b>	MC-SU-C1129	<b>BSL Code:</b>	BC-SU-C110B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Distribution
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Regional
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing program replaces or rehabilitates existing water mains in Seattle. Replacements occur when leaks and breaks become too frequent and the cost of ongoing repairs is no longer cost effective. The benefits of this program can include improved service reliability, fire flow, water quality and lower maintenance costs. These benefits vary depending on the specific water main and site conditions.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Rates	30,921	13,295	15,922	15,552	8,162	21,916	33,316	33,816	172,899
<b>Total:</b>	<b>30,921</b>	<b>13,295</b>	<b>15,922</b>	<b>15,552</b>	<b>8,162</b>	<b>21,916</b>	<b>33,316</b>	<b>33,816</b>	<b>172,899</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Water Fund	30,921	13,295	15,922	15,552	8,162	21,916	33,316	33,816	172,899
<b>Total:</b>	<b>30,921</b>	<b>13,295</b>	<b>15,922</b>	<b>15,552</b>	<b>8,162</b>	<b>21,916</b>	<b>33,316</b>	<b>33,816</b>	<b>172,899</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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**Watershed Road Improvements/Decommissioning**

<b>Project No:</b>	MC-SU-C1601	<b>BSL Code:</b>	BC-SU-C160B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Habitat Conservation Program
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Cedar River Watershed
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Outside City of Seattle
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides forest road improvements and decommissioning in the Cedar River Watershed. The purpose of this program is to reduce the delivery of sediment into the waterways in the watershed to protect both aquatic habitat and water quality. This program is a requirement under the Cedar River Watershed Habitat Conservation Plan (HCP).

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Rates	8,019	1,048	709	635	283	455	163	163	11,473
<b>Total:</b>	<b>8,019</b>	<b>1,048</b>	<b>709</b>	<b>635</b>	<b>283</b>	<b>455</b>	<b>163</b>	<b>163</b>	<b>11,473</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Fund	8,019	1,048	709	635	283	455	163	163	11,473
<b>Total:</b>	<b>8,019</b>	<b>1,048</b>	<b>709</b>	<b>635</b>	<b>283</b>	<b>455</b>	<b>163</b>	<b>163</b>	<b>11,473</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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# **Seattle Public Utilities**

## **Shared & Technology Projects**





**1% for Arts**

<b>Project No:</b>	MC-SU-C4118	<b>BSL Code:</b>	BC-SU-C410B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Shared Cost Projects
<b>Project Category:</b>	New Investment	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing project provides funding for Seattle Public Utilities' 1% for Arts contribution. Eligibility is determined at the individual project level with payment occurring from this project. Funds contributed to the 1% for Arts project allow for the commission, purchase, and installation of art on City-owned properties that is accessible to the public. The Municipal Arts Plan, which is prepared annually, describes the status of ongoing art projects and establishes the scope of work and allocations for new art projects.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Rates	6,199	1,074	1,127	869	798	433	486	491	11,478
Solid Waste Rates	1,968	190	28	35	147	83	5	2	2,458
Water Rates	2,391	247	220	177	165	286	310	235	4,031
<b>Total:</b>	<b>10,558</b>	<b>1,510</b>	<b>1,375</b>	<b>1,082</b>	<b>1,110</b>	<b>802</b>	<b>802</b>	<b>728</b>	<b>17,967</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Fund	6,199	1,074	1,127	869	798	433	486	491	11,478
Solid Waste Fund	1,968	190	28	35	147	83	5	2	2,458
Water Fund	2,391	247	220	177	165	286	310	235	4,031
<b>Total:</b>	<b>10,558</b>	<b>1,510</b>	<b>1,375</b>	<b>1,082</b>	<b>1,110</b>	<b>802</b>	<b>802</b>	<b>728</b>	<b>17,967</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Alaskan Way Viaduct & Seawall Replacement Program

<b>Project No:</b>	MC-SU-C4102	<b>BSL Code:</b>	BC-SU-C410B
<b>Project Type:</b>	Discrete	<b>BSL Name:</b>	Shared Cost Projects
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	Stage 5 - Construction	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	2001 - 2025	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	\$87,522	<b>Urban Village:</b>	Multiple

This project relocates, replaces, and protects water infrastructure affected by the replacement of the Alaskan Way Viaduct and Seawall. This project encompasses many sub-projects which are collectively known as the Alaskan Way Viaduct and Seawall Replacement project (AWVSR project). The Washington State Department of Transportation (WSDOT) is the lead for the SR-99 replacement, while the City of Seattle is the lead on development of the waterfront public space, implementation of the new surface Alaskan Way, and design and construction of the seawall.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Rates	54,366	3,233	603	225	15	-	-	-	58,443
Water Rates	25,097	537	109	22	-	-	-	-	25,766
<b>Total:</b>	<b>79,464</b>	<b>3,770</b>	<b>713</b>	<b>248</b>	<b>15</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>84,209</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Fund	54,366	3,233	603	225	15	-	-	-	58,443
Water Fund	25,097	537	109	22	-	-	-	-	25,766
<b>Total:</b>	<b>79,464</b>	<b>3,770</b>	<b>713</b>	<b>248</b>	<b>15</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>84,209</b>

**O&M Impacts:** Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

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## Asset Information Management

<b>Project No:</b>	MC-SU-C5407	<b>BSL Code:</b>	BC-SU-C510B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Technology
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Not Applicable
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing project provides applications, upgrades and data management tools in support of SPU's work and asset management projects. Several new and updated technology solutions designed to enhance the efficiency and effectiveness of drinking water, sewer, drainage, and solid waste operations are planned. Activities within this project aim to further enhance safety and improve responsiveness of SPU's utility operations.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Rates	1,890	1,386	237	860	860	860	860	860	7,812
Solid Waste Rates	1,026	392	83	300	300	300	300	300	3,000
Water Rates	1,763	2,120	231	840	840	840	840	840	8,314
<b>Total:</b>	<b>4,678</b>	<b>3,898</b>	<b>550</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>19,127</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Fund	1,890	1,386	237	860	860	860	860	860	7,812
Solid Waste Fund	1,026	392	83	300	300	300	300	300	3,000
Water Fund	1,763	2,120	231	840	840	840	840	840	8,314
<b>Total:</b>	<b>4,678</b>	<b>3,898</b>	<b>550</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>19,127</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Customer Contact & Billing

<b>Project No:</b>	MC-SU-C5402	<b>BSL Code:</b>	BC-SU-C510B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Technology
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	N/A
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Not Applicable
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing project provides technology solutions and business application upgrades in support of SPU's Customer Contact Center and activities carried out by the Customer Service Branch. Planned projects include, but are not limited to, enhancements to the New Customer Billing System and new technology solutions for enhanced customer contact management. This ongoing project is intended to enhance customer service, customer contact, and ensure accurate Utility billing.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Rates	8,026	2,318	1,892	430	430	430	430	430	14,385
Solid Waste Rates	4,433	1,210	660	150	150	150	150	150	7,053
Water Rates	7,879	2,061	1,848	420	420	420	420	420	13,888
<b>Total:</b>	<b>20,338</b>	<b>5,588</b>	<b>4,400</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>35,326</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Fund	8,026	2,318	1,892	430	430	430	430	430	14,385
Solid Waste Fund	4,433	1,210	660	150	150	150	150	150	7,053
Water Fund	7,879	2,061	1,848	420	420	420	420	420	13,888
<b>Total:</b>	<b>20,338</b>	<b>5,588</b>	<b>4,400</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>35,326</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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## Enterprise Information Management

<b>Project No:</b>	MC-SU-C5403	<b>BSL Code:</b>	BC-SU-C510B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Technology
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Not Applicable
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing project provides integrated technology solutions in support of the management of SPU's corporate knowledge, including data, information, documents, and web content. Typical improvements may include, but are not limited to, replacement of shared file storage, new online collaboration tools, introduction of workflow, tracking & reporting applications, web content management systems, and an enterprise document management solution. This ongoing project enhances SPU's ability to retrieve, share, distribute and manage corporate information.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Rates	1,349	996	473	860	860	860	860	860	7,118
Solid Waste Rates	373	69	165	300	300	300	300	300	2,107
Water Rates	1,137	451	462	840	840	840	840	840	6,250
<b>Total:</b>	<b>2,859</b>	<b>1,517</b>	<b>1,100</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>15,475</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Fund	1,349	996	473	860	860	860	860	860	7,118
Solid Waste Fund	373	69	165	300	300	300	300	300	2,107
Water Fund	1,137	451	462	840	840	840	840	840	6,250
<b>Total:</b>	<b>2,859</b>	<b>1,517</b>	<b>1,100</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>15,475</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Heavy Equipment Purchases

<b>Project No:</b>	MC-SU-C4116	<b>BSL Code:</b>	BC-SU-C410B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Shared Cost Projects
<b>Project Category:</b>	New Investment	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Not Applicable
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing project provides SPU staff with new and replacement heavy equipment required by SPU crews to perform their work. This equipment transports work crews and tools to job sites and supports the safe and efficient replacement, repair, and maintenance of infrastructures. It also build the infrastructure and telematics system needed to implement a fleet of electric vehicles to reduce SPU's use of fossil fuels and support the City's Drive Clean Seattle Fleet initiative.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Rates	21,648	4,201	1,819	3,086	3,339	2,696	2,777	2,870	42,434
Solid Waste Rates	13,635	6,044	3,573	1,961	2,004	1,799	1,853	1,908	32,777
Water Rates	23,714	5,484	1,168	960	3,625	2,972	3,061	3,153	44,136
<b>Total:</b>	<b>58,997</b>	<b>15,728</b>	<b>6,559</b>	<b>6,007</b>	<b>8,967</b>	<b>7,467</b>	<b>7,691</b>	<b>7,931</b>	<b>119,347</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Fund	21,648	4,201	1,819	3,086	3,339	2,696	2,777	2,870	42,434
Solid Waste Fund	13,635	6,044	3,573	1,961	2,004	1,799	1,853	1,908	32,777
Water Fund	23,714	5,484	1,168	960	3,625	2,972	3,061	3,153	44,136
<b>Total:</b>	<b>58,997</b>	<b>15,728</b>	<b>6,559</b>	<b>6,007</b>	<b>8,967</b>	<b>7,467</b>	<b>7,691</b>	<b>7,931</b>	<b>119,347</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Integrated Control Monitoring Program

<b>Project No:</b>	MC-SU-C4108	<b>BSL Code:</b>	BC-SU-C410B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Shared Cost Projects
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Not Applicable
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing project provides for electronic and mechanical system upgrades as required at various City facilities. The drinking water Supervisory Control and Data Acquisition (SCADA) system was installed in 2005 throughout King County. System components include, but is not limited to, treatment/flow/pressure sensors, remote control pumps/valves used in the conveyance and quality of drinking water and the delivery of water to fire hydrants, also known as "fire flow". The project also provides engineering design and civil construction at drainage and wastewater infrastructure monitoring sites. The data produced at these sites is used by operations to predetermine combined sewer overflows (CSO) and engineering modeling and forecasting. The improvements supplied by this project decrease CSO violations in compliance with the City's NPDES permit. Typical improvements include trenching and conduit from power/Telco pole to above ground SCADA cabinet to field monitoring instrumentation. This work will occur at 150 CSS sites.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Rates	1,868	250	250	250	250	250	250	250	3,618
Water Rates	1,024	867	-	-	-	-	-	-	1,892
<b>Total:</b>	<b>2,892</b>	<b>1,117</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>5,509</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Fund	1,868	250	250	250	250	250	250	250	3,618
Water Fund	1,024	867	-	-	-	-	-	-	1,892
<b>Total:</b>	<b>2,892</b>	<b>1,117</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>5,509</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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## IT Infrastructure

<b>Project No:</b>	MC-SU-C5404	<b>BSL Code:</b>	BC-SU-C510B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Technology
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	N/A
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Not Applicable
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing IT asset management project ensures the availability, reliability, and security of SPU's corporate computing infrastructure. The project acquires and maintains SPU-owned and managed servers, local networks, shared storage and backup systems, operating software, and communications infrastructure.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Rates	1,067	1,633	1,290	753	753	753	753	753	7,753
Solid Waste Rates	372	361	450	263	263	263	263	263	2,495
Water Rates	1,682	1,314	1,260	735	735	735	735	735	7,931
<b>Total:</b>	<b>3,121</b>	<b>3,308</b>	<b>3,000</b>	<b>1,750</b>	<b>1,750</b>	<b>1,750</b>	<b>1,750</b>	<b>1,750</b>	<b>18,179</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Fund	1,067	1,633	1,290	753	753	753	753	753	7,753
Solid Waste Fund	372	361	450	263	263	263	263	263	2,495
Water Fund	1,682	1,314	1,260	735	735	735	735	735	7,931
<b>Total:</b>	<b>3,121</b>	<b>3,308</b>	<b>3,000</b>	<b>1,750</b>	<b>1,750</b>	<b>1,750</b>	<b>1,750</b>	<b>1,750</b>	<b>18,179</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Meter Replacement

<b>Project No:</b>	MC-SU-C4101	<b>BSL Code:</b>	BC-SU-C410B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Shared Cost Projects
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing project funds replacement of existing water meters when they fail or become obsolete. Meters measuring up to two inches are replaced when they stop running. Meters measuring three inches or more are repaired when possible, but are replaced when repair costs exceed replacement costs. Accurate water meters ensure that customers are billed fairly for the water they use. Since water meters also are used to bill customers for their wastewater discharges, 48 percent of the funding is allocated to the Drainage and Wastewater line of business.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Rates	8,417	966	528	533	538	542	451	202	12,177
Water Rates	9,133	725	572	577	582	588	489	218	12,885
<b>Total:</b>	<b>17,551</b>	<b>1,692</b>	<b>1,100</b>	<b>1,110</b>	<b>1,120</b>	<b>1,130</b>	<b>940</b>	<b>420</b>	<b>25,062</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Fund	8,417	966	528	533	538	542	451	202	12,177
Water Fund	9,133	725	572	577	582	588	489	218	12,885
<b>Total:</b>	<b>17,551</b>	<b>1,692</b>	<b>1,100</b>	<b>1,110</b>	<b>1,120</b>	<b>1,130</b>	<b>940</b>	<b>420</b>	<b>25,062</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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**Move Seattle**

<b>Project No:</b>	MC-SU-C4119	<b>BSL Code:</b>	BC-SU-C410B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Shared Cost Projects
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This multi-year project funds assessments, repairs, and improvements to SPU's utility infrastructure at sites chosen by the Seattle Department of Transportation (SDOT) for bridge improvements and pedestrian and bicycle safety improvements within its "Move Seattle" project. SPU assesses the condition of its utility infrastructure at SDOT's project sites and conducts repairs and improvements as needed. This project is also known as "Bridging the Gap Program."

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Rates	11,754	2,567	7,368	9,467	7,396	8,287	12,520	10,020	69,381
Water Rates	16,337	10,754	16,705	19,607	12,267	7,495	6,607	6,000	95,772
<b>Total:</b>	<b>28,091</b>	<b>13,321</b>	<b>24,074</b>	<b>29,074</b>	<b>19,663</b>	<b>15,782</b>	<b>19,127</b>	<b>16,020</b>	<b>165,152</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Fund	11,754	2,567	7,368	9,467	7,396	8,287	12,520	10,020	69,381
Water Fund	16,337	10,754	16,705	19,607	12,267	7,495	6,607	6,000	95,772
<b>Total:</b>	<b>28,091</b>	<b>13,321</b>	<b>24,074</b>	<b>29,074</b>	<b>19,663</b>	<b>15,782</b>	<b>19,127</b>	<b>16,020</b>	<b>165,152</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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**Operational Facility - Construction**

<b>Project No:</b>	MC-SU-C4106	<b>BSL Code:</b>	BC-SU-C410B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Shared Cost Projects
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing facilities project renovates, rehabilitates, replaces existing buildings, and constructs new facilities at various locations within the city limits to address deficiencies, failures, and functional changes in the SPU Lines of Business. Typical improvements include, but are not limited to, roof replacements, exterior wall or cladding replacements, and improvements to administrative office space, crew and shop space, lighting, heating and ventilation systems, and facilities structures. These improvements increase the useful life of the facilities, preserve the value of the assets, and provide a safe working environment.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Rates	23,675	5,252	6,134	8,570	12,965	3,800	1,075	4,750	66,222
Solid Waste Rates	274	852	1,276	1,351	646	-	-	-	4,399
Water Rates	8,553	6,236	9,039	4,358	2,408	500	1,075	4,750	36,918
<b>Total:</b>	<b>32,502</b>	<b>12,340</b>	<b>16,450</b>	<b>14,279</b>	<b>16,019</b>	<b>4,300</b>	<b>2,150</b>	<b>9,500</b>	<b>107,539</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Fund	23,675	5,252	6,134	8,570	12,965	3,800	1,075	4,750	66,222
Solid Waste Fund	274	852	1,276	1,351	646	-	-	-	4,399
Water Fund	8,553	6,236	9,039	4,358	2,408	500	1,075	4,750	36,918
<b>Total:</b>	<b>32,502</b>	<b>12,340</b>	<b>16,450</b>	<b>14,279</b>	<b>16,019</b>	<b>4,300</b>	<b>2,150</b>	<b>9,500</b>	<b>107,539</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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**Operations Control Center**

<b>Project No:</b>	MC-SU-C4105	<b>BSL Code:</b>	BC-SU-C410B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Shared Cost Projects
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	2700 Airport Way South
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Council District 2
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Greater Duwamish
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Greater Duwamish

This ongoing facilities project renovates, rehabilitates, replaces existing buildings, and constructs new facilities at the Operations Control Center located at 2700 Airport Way South to improve the efficiency and effectiveness of the field crews delivering utility services to customers. Typical improvements include, but are not limited to, roof and other exterior replacements, improvements to public spaces, office and crew spaces and lighting, and heating and ventilation systems. These improvements increase the useful life of the facility, preserve the value of the asset, and provide a safe work and public space environment.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Rates	3,170	-	-	-	-	-	-	-	3,170
<b>Total:</b>	<b>3,170</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,170</b>

  

<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Fund	3,170	-	-	-	-	-	-	-	3,170
<b>Total:</b>	<b>3,170</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,170</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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**Other Major Transportation Projects**

<b>Project No:</b>	MC-SU-C4123	<b>BSL Code:</b>	BC-SU-C410B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Shared Cost Projects
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing project funds projects that mitigate undesirable impacts and take advantage of opportunities generated by the capital transportation projects of the Washington State Department of Transportation (WSDOT) and the Seattle Department of Transportation (SDOT) throughout the City. Work may include, but is not limited to, physically protecting the infrastructure during the transportation construction process, repairing and replacing damaged infrastructure, and improving existing infrastructure to meet higher standards. Project sites may include, but are not limited to, State Route 520, Interstate 5, and Interstate 90.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Rates	750	1,173	100	95	120	20	20	20	2,298
Water Rates	2,175	175	1,619	5,093	4,040	228	50	50	13,430
<b>Total:</b>	<b>2,926</b>	<b>1,348</b>	<b>1,719</b>	<b>5,188</b>	<b>4,160</b>	<b>248</b>	<b>70</b>	<b>70</b>	<b>15,729</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Fund	750	1,173	100	95	120	20	20	20	2,298
Water Fund	2,175	175	1,619	5,093	4,040	228	50	50	13,430
<b>Total:</b>	<b>2,926</b>	<b>1,348</b>	<b>1,719</b>	<b>5,188</b>	<b>4,160</b>	<b>248</b>	<b>70</b>	<b>70</b>	<b>15,729</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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**Project Delivery & Performance**

<b>Project No:</b>	MC-SU-C5405	<b>BSL Code:</b>	BC-SU-C510B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Technology
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	N/A
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Not Applicable
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing project provides technology applications and application upgrades in support of improvements to project delivery and performance. Planned projects include continued development of an Enterprise Project Management System, replacement of the Engineering Support Contract Payments system, and SPU's share of costs for the City's central financial system upgrades. Future projects may include development of new Enterprise Resource Planning systems such as HR provisioning and financial reporting. This project will result in an improved ability to plan and deliver projects on schedule and within budget.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Rates	7,495	1,767	2,505	1,231	731	731	731	731	15,922
Solid Waste Rates	2,755	545	525	255	255	255	255	255	5,100
Water Rates	8,085	1,485	1,470	714	714	714	714	714	14,610
<b>Total:</b>	<b>18,335</b>	<b>3,798</b>	<b>4,500</b>	<b>2,200</b>	<b>1,700</b>	<b>1,700</b>	<b>1,700</b>	<b>1,700</b>	<b>35,633</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Fund	7,495	1,767	2,505	1,231	731	731	731	731	15,922
Solid Waste Fund	2,755	545	525	255	255	255	255	255	5,100
Water Fund	8,085	1,485	1,470	714	714	714	714	714	14,610
<b>Total:</b>	<b>18,335</b>	<b>3,798</b>	<b>4,500</b>	<b>2,200</b>	<b>1,700</b>	<b>1,700</b>	<b>1,700</b>	<b>1,700</b>	<b>35,633</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

\* Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

**Regional Facility - Other**

<b>Project No:</b>	MC-SU-C4107	<b>BSL Code:</b>	BC-SU-C410B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Shared Cost Projects
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Regional
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Outside City of Seattle
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Outside City of Seattle
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Outside City of Seattle

This ongoing facilities project renovates, rehabilitates, replaces existing buildings, and constructs new facilities at various locations outside of City limits to address deficiencies, failures, and functional changes in the drinking water system. These improvements increase the useful life of the facilities, preserve the value of the assets, and provide a safe working environment.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Rates	26,749	3,496	4,000	15,200	8,200	4,000	2,300	150	64,095
<b>Total:</b>	<b>26,749</b>	<b>3,496</b>	<b>4,000</b>	<b>15,200</b>	<b>8,200</b>	<b>4,000</b>	<b>2,300</b>	<b>150</b>	<b>64,095</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Water Fund	26,749	3,496	4,000	15,200	8,200	4,000	2,300	150	64,095
<b>Total:</b>	<b>26,749</b>	<b>3,496</b>	<b>4,000</b>	<b>15,200</b>	<b>8,200</b>	<b>4,000</b>	<b>2,300</b>	<b>150</b>	<b>64,095</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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**Science & System Performance**

<b>Project No:</b>	MC-SU-C5406	<b>BSL Code:</b>	BC-SU-C510B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Technology
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	N/A
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Not Applicable
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Not in a Neighborhood District
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Not in an Urban Village

This ongoing project will provide new and improved technology applications and accompanying data management tools to support the gathering, monitoring, tracking and analysis of science and engineering information. Several planned projects include replacement of obsolete regulatory compliance tracking applications, upgrades to field monitoring equipment, and the integration of SCADA data with other data systems. This project enhances SPU's ability to control water quality and comply with environmental and health regulations.

<b>Resources</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Rates	2,002	688	753	688	688	688	688	688	6,882
Solid Waste Rates	19	278	263	240	240	240	240	240	1,759
Water Rates	4,450	892	735	672	672	672	672	672	9,437
<b>Total:</b>	<b>6,470</b>	<b>1,858</b>	<b>1,750</b>	<b>1,600</b>	<b>1,600</b>	<b>1,600</b>	<b>1,600</b>	<b>1,600</b>	<b>18,078</b>
<b>Fund Appropriations / Allocations *</b>	<b>LTD Actuals</b>	<b>2022 Revised</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Total</b>
Drainage and Wastewater Fund	2,002	688	753	688	688	688	688	688	6,882
Solid Waste Fund	19	278	263	240	240	240	240	240	1,759
Water Fund	4,450	892	735	672	672	672	672	672	9,437
<b>Total:</b>	<b>6,470</b>	<b>1,858</b>	<b>1,750</b>	<b>1,600</b>	<b>1,600</b>	<b>1,600</b>	<b>1,600</b>	<b>1,600</b>	<b>18,078</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Security Improvements

<b>Project No:</b>	MC-SU-C4113	<b>BSL Code:</b>	BC-SU-C410B
<b>Project Type:</b>	Ongoing	<b>BSL Name:</b>	Shared Cost Projects
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	N/A	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	N/A	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	N/A	<b>Urban Village:</b>	Multiple

This ongoing project funds physical, integrated security system components on SPU infrastructure throughout the City. Components may include, but are not limited to, fences, gates, access control card readers, intercoms, lighting, door and hatch contacts, CCTV cameras, motion detection devices, and fiber and conduit.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Rates	797	360	134	428	171	134	134	134	2,290
Solid Waste Rates	1,204	211	138	250	162	138	138	138	2,378
Water Rates	6,076	838	1,344	1,887	1,606	1,419	1,419	1,419	16,007
<b>Total:</b>	<b>8,076</b>	<b>1,409</b>	<b>1,615</b>	<b>2,565</b>	<b>1,940</b>	<b>1,690</b>	<b>1,690</b>	<b>1,690</b>	<b>20,675</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Fund	797	360	134	428	171	134	134	134	2,290
Solid Waste Fund	1,204	211	138	250	162	138	138	138	2,378
Water Fund	6,076	838	1,344	1,887	1,606	1,419	1,419	1,419	16,007
<b>Total:</b>	<b>8,076</b>	<b>1,409</b>	<b>1,615</b>	<b>2,565</b>	<b>1,940</b>	<b>1,690</b>	<b>1,690</b>	<b>1,690</b>	<b>20,675</b>

**O&M Impacts:** This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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### Streetcar Related Projects

<b>Project No:</b>	MC-SU-C4130	<b>BSL Code:</b>	BC-SU-C410B
<b>Project Type:</b>	Discrete	<b>BSL Name:</b>	Shared Cost Projects
<b>Project Category:</b>	Improved Facility	<b>Location:</b>	Various
<b>Current Project Stage:</b>	Stage 2 - Initiation, Project Definition, & Planning	<b>Council District:</b>	Multiple
<b>Start/End Date:</b>	2009 - 2030	<b>Neighborhood District:</b>	Multiple
<b>Total Project Cost:</b>	\$66,021	<b>Urban Village:</b>	Multiple

This project plans and relocates SPU assets that will be impacted by the SDOT-led First Hill Streetcar project and related streetcar projects, which will connect major employment centers on First Hill to the regional light rail system stations on Capitol Hill and in the International District. It is currently in the construction phase.

Resources	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Rates	4,038	147	12	12	4,412	-	-	-	8,621
Water Rates	14,580	-	-	-	-	-	-	-	14,580
<b>Total:</b>	<b>18,618</b>	<b>147</b>	<b>12</b>	<b>12</b>	<b>4,412</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>23,201</b>
Fund Appropriations / Allocations *	LTD Actuals	2022 Revised	2023	2024	2025	2026	2027	2028	Total
Drainage and Wastewater Fund	4,038	147	12	12	4,412	-	-	-	8,621
Water Fund	14,580	-	-	-	-	-	-	-	14,580
<b>Total:</b>	<b>18,618</b>	<b>147</b>	<b>12</b>	<b>12</b>	<b>4,412</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>23,201</b>

**O&M Impacts:** Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

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