Executive Summary

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Executive Summary

Every day, the City of Olympia Drinking Water Utility (Utility) delivers affordable, high-quality drinking water to over 66,000 people through approximately 21,000 connections. This water consistently meets 100 percent of US Environmental Protection Agency (USEPA) standards for safe drinking water, and it is pumped to everyone's homes at a fraction of the cost some will pay for bottled water.

This Water System Plan serves as a guide for Utility staff to use in achieving objectives and implementing strategies over the next six years and provides benchmarks against which progress toward the Utility's goals can be measured.

This Water System Plan has been prepared in accordance with WAC 246-290-100, which requires public water systems with more than 1,000 connections to submit a water system plan every six years (or up to ten years if desired) for review and approval by the Washington State Department of Health (DOH). This Water System Plan demonstrates the Utility's operational, technical, managerial and financial capability to achieve and maintain compliance with relevant local, state and federal regulations, and how the Utility will address present and future needs. As such, this Water System Plan is an update of the Utility's 2015 Water System Plan and covers the six-year time-period 2021-2026.

Overall Vision

The Utility's mission is to provide and protect healthy drinking water for the community, with a long-term vision that the Utility sustains present and future water supplies for our community while protecting the environment. This mission and vision have been developed in the context of the City of Olympia's commitment to sustainability.

This Water System Plan evaluates the City of Olympia's water system from the perspective of the full hydrologic cycle, not solely from the traditional perspective of source, storage and distribution. It recognizes the connection between groundwater and surface water, and the effect that the City of Olympia's groundwater-dependent water system may have on surrounding surface water bodies.

Additionally, this Water System Plan helps carry out the vision and goals stated in the Olympia Comprehensive Plan. In particular, the following chapters of the Comprehensive Plan give guidance to this strategic management plan for the Utility:

- Community Values & Vision
- Public Participation and Partners
- Utilities
- Natural Environment
- Capital Facilities Plan

Accomplishments Since the 2015 Water System Plan

The 2015 Water System Plan identified capital projects planned for implementation between 2015 and 2034. Among the largest and most significant capital projects completed under the 2015 Water System Plan include the following:

2017 – **Fones Road Booster Pump Station**: This project replaced an old booster pump station which had a deficient electrical system, confined space entry constraints, and aging ventilation and pumping equipment.

2018 – **Meridian Corrosion Control**: This project constructed 3 corrosion control treatment facilities at the Meridian Tanks to raise the pH of water withdrawn from the McAllister Wellfield, thus maintaining compliance with the Lead and Copper Rule.

2019 - Construction of Log Cabin Storage Tank: This project addresses storage and fire flow deficiencies in Zone 417 and installation of 2,100 ft 16-inch ductile iron water main connecting the new Log Cabin Tank to the distribution system.

2019 – **Kaiser Road Extension**: This project installed a new 12-inch ductile iron water main extending Kaiser Road water main to Evergreen Park Drive thereby completing a piping loop to the north end of Pressure Zone 298.

2020 – Fir Street Reservior: This project consisted of structural upgrades and seismic retrofits of the Fir Street Storage Tanks to maintain compliance with seismic codes and enhance reliability of these facilities.

2020 – **Elliott Storage Tank.** This project consisted of structural upgrades and seismic retrofits of the Elliott Storage Tank to maintain compliance with seismic codes and enhance reliability of this facility.

2020 - Completion of Shana Park Well Contingency Plan. This Plan explored options to address ongoing elevated nitrate levels in groundwater and initiated the recommendation to drill a pilot well at the Utility's LBA site as a possible new source/production well relocation site.

2015-2020 – **Small Diameter Pipe Replacement**. Approximately 3,700 feet of existing small diameter substandard water mains were replaced with larger diameter piping to increase reliability of the distribution system and maintain domestic and fire flows at required minimum pressures.

2015-2020 – **Aging Pipe Replacement.** Approximately 4,400 feet of aging and asbestos cement pipe was replaced to increase the reliability of the distribution system and reduce the potential for leaks in older parts of the system.

Additional Utility accomplishments under the 2015 Water System Plan include:

America's Water Infrastructure Act (AWIA). Passed by Congress in 2018, the AWIA required the Utility to conduct a Risk and Resilience Assessment and revise our Emergency Response Plan to be consistent with the findings of the Risk and Resilience Assessment. The Utility completed both requirements and submitted the certifications of completion for each by the required deadlines.

New Helping Neighbors Program. In July 2021, the City launched the Helping Neighbors program that collects voluntary donations to help low-income customers pay their utility costs. The program is a partnership with the Community Action Council, a local non-profit, that will determine eligibility and administer funds to qualified low-income households. The funds are used to pay for City of Olympia utility services. Eligible customers can receive a \$75 voucher twice per calendar year. Funds are available on a first come, first serve basis. The new program is intended to help City of Olympia utility customers that would not otherwise qualify for the City's other low-income utility assistance program, Lifeline Rates, where citizens must meet disability and age criteria.

Cross-Connection Program. The Utility added 600 new assemblies to our tracking system (Xc2) because of infield site survey work.

Percival Utility Bridge Emergency Repairs. The Percival Creek Utility Bridge was severely damaged during a February 7, 2020 windstorm when a tree fell and struck its middle span breaking the existing water (and sewer) mains attached to the underside of the bridge. The Percival Creek Utility Bridge and water (and sewer) mains have been repaired to pre-disaster function.

Water Right Extensions. The Utility received construction notice extensions from the Washington State Department of Ecology for two water rights during the 2015-2020 planning period: The Briggs water right construction notice deadline was extended to July 1, 2024 and the Cities of Olympia, Tumwater and Lacey jointly owned Brewery water right construction notice deadline was extended to April 1, 2041.

McAllister Wellfield Mitigation. As of year-end 2020, the Utility, in concert with the Nisqually Indian Tribe, has completed the bulk of the requirements outlined in the McAllister Wellfield Mitigation Plan. At this time, only the final retirement of the Smith water right and ongoing operations and maintenance obligations remain, including ongoing operations and maintenance of the Woodland Creek Groundwater Recharge Facility in partnership with the City of Lacey. The Utility also continues to be obligated to participate in a Budd Inlet/Deschutes Watershed Environmental Coalition, when formed.

Opportunities and Challenges

While the Utility achieved significant accomplishments during the 2015-2020 planning period, the Utility continues to face opportunities and challenges. The general opportunities and challenges facing the Utility are listed below followed by the Utility's areas of focus for the 2021-2026 planning period.

The general opportunities and challenges facing the Utility during 2021-2026 include:

- 1. **Aging infrastructure.** Assessment, repair and replacement of existing infrastructure will continue to be a challenge for the Utility.
- 2. **Changing water quality regulations.** The Utility must be ready to respond to any changes in water quality regulations and treatment requirements imposed by state and federal agencies.
- 3. **Keeping pace with development.** Fast or slow, the rate of growth will determine how new water sources are developed and when they come online.
- 4. **Protecting groundwater from contamination.** Risks to groundwater will increase with a growing population, and will require the City to regularly evaluate, monitor, and take action to control sources of pollution.
- 5. **Equitable and predictable rates and fees.** Creating predictability for customers and developers is difficult in a complex economic and regulatory environment.
- 6. **Public education and involvement.** Keeping customers and the community involved and informed about challenges, needs, plans and proposals can help ensure that programs and projects are responsive to customer needs and community values.
- 7. **Climate change.** Changing climate in the Pacific Northwest likely will result in milder, wetter winters and hotter, drier summers. Direct impacts on the Utility could result from projected increases in summer temperatures causing a corresponding increase in water use. Although thought to be at a low risk, saltwater intrusion from rising sea level could impact the Allison Springs source. Additionally, the Percival Pump Station, becomes vulnerable to flooding at 24-inches of sea level rise. Efforts made by the Utility such as reducing its energy use and promoting water conservation activities could assist the community in its efforts to mitigate climate change.
- 8. **Incorporating equity (fairness) in utility decisions.** The Utility must ensure all people benefit from the Utility's work equitably and have opportunities to inform decision-making through inclusive engagement.

The Utility will focus on addressing the following detailed opportunities and challenges during the 2021-2026 planning period:

- 1. **Southeast Olympia groundwater sources**. During the 2021-2026 planning period, the Utility will focus on evaluating the Southeast Olympia wells and water rights to determine if changes to water rights and well locations may be beneficial to the operation of the water system.
- 2. **Reservoir upgrades.** In recent years, the Utility has conducted seismic and condition evaluation of our reservoirs and storage tanks. Upgrades to Fir St and Elliot reservoirs have been made, with upgrades

to Boulevard Tank expected to begin in 2022. During the 2021-2026 planning period, the Utility expects to address upgrades (or replacements) of other reservoirs/tanks.

- 3. Asset Management Strategy. The Utility has made progress in implementing its asset management strategy. During 2021-2026, the Utility will focus on refining effective useful life estimates and 50-year infrastructure renewal/replacement cost projections to inform, educate and engage our Utility Advisory Committee, City Council and community about the Utility's infrastructure investment needs.
- 4. Uncertainty of changing demands. Uncertainty in future water demand from the impact of the COVID-19 pandemic and its associated changes in where and how people work is a newly emerging challenge for the Utility. The commercial, state, and political subdivision customer categories contain accounts that were notably affected by these changes, seeing an annual usage decline of 16 percent, 27 percent and 21 percent respectively from 2019 to 2020. It is unknown if this shift in demands will continue in the future.

2021-2026 Drinking Water Utility Goals

The primary framework for this Water System Plan is the Utility's long-term vision that the Utility sustains present and future water supplies for our community while protecting the environment. The Utility sees itself as a steward of water resources and therefore takes a broad view of the entire hydrologic cycle, rather than focusing narrowly on system infrastructure.

Table ES1 defines the key planning terms used in this Water System Plan. Understanding them will make it easier to see how specific elements of this Water System Plan relate to each other.

Goals ¹	Broad, qualitative statements of what the Drinking Water Utility intends to achieve.
Objectives	Specific, measurable statements of what will be done to achieve the Goals within a particular time frame.
Strategies	General approaches or methods for achieving Objectives and resolving specific issues. Strategies speak to the question "How will we go about accomplishing our Objectives?"

Table ES1 Key Planning Terms

1. Definitions are adapted from EPA's Planning for Sustainability: A Handbook for Water and Wastewater Utilities, EPA-823-R-12-001, February 2012.

The goals, objectives and strategies presented in Table ES2 offer a roadmap for the Utility's direction over the next six years. Further information and discussion regarding the goals, objectives and strategies and how the Utility intends to implement them through its existing programs during the 2021-2026 planning period can be found in Appendix ES1 Plan Implementation, Staffing and Monitoring.

Table ES2 2021-2026 Goals, Objectives and Strategies

Goal 1. Adequate supplies of water are available for the Olympia community while protecting in-stream flows and sustaining long-term capacity of aquifers. (Chapter 4)				
Objective 1A. lo	dentify water rights that ensure adequate supply for at least 50 years, so sources can be protected from contamination or commitment to ower priority uses.			
Strategi	es			
1.	Evaluate existing water rights and forecasted demand every six years.			
2.	Continue implementing required mitigation actions associated with McAllister Wellfield water rights.			
Objective 1B.	Encourage multi-jurisdictional approaches to water rights and source development.			
Strategi	es			
1.	Through agreements and in consultation with neighboring tribes, counties and cities, take a cooperative, regional approach to mitigating aquifer pumping impacts on water bodies in the Deschutes and Nisqually WRIAs (11 and 13, respectively).			
2.	Continue to evaluate future operational strategies for development of the former Olympia Brewery water rights.			
Objective 1C. 1	Monitor water levels in all pumped aquifers and maintain numerical groundwater models to better define aquifer characteristics and accurately evaluate the impacts of the City's withdrawals.			
Strategi	es			
1.	Continue to record consistent and timely measurements of groundwater levels in all pumping supply wells and all drinking water protection area (DWPA) monitoring wells.			
2.	Evaluate groundwater level data to ensure optimal pump operation and to update DWPA numerical models as needed.			
3.	Continue to expand the long-term water level monitoring effort in all water supply areas to better understand impacts of the City's withdrawal on the aquifers used for water supply.			
4.	Evaluate whether aquifer pumping tests are needed in certain water supply aquifers and conduct tests as needed.			
5.	Maintain numerical models for all water sources. Use these models to predict future water supply impacts from climate change, development, and additional withdrawals.			
Goal 2. Water is	delivered at pressures required by the Washington State Department of Health and meets Safe Drinking Water Act standards. (Chapter 11)			
Objective 2A.	Maintain 100 percent compliance with all state and federal monitoring requirements.			
Strategies				
1.	Continue compliance monitoring for source, distribution and tap locations according to required timelines, with analysis performed by accredited laboratories.			
2.	Continue groundwater protection monitoring to detect contamination that may be migrating toward drinking water sources.			
3.	Continue to track revisions to state and federal monitoring requirements.			
4.	Continue monitoring nitrate levels in Shana Park Well 11 (S10). If levels begin to increase, evaluate treatment or development of a new			

	source.
Objective 2B.	Maintain 100 percent compliance with all state and federal treatment requirements.
Strate	gies
1.	Maintain a minimum free chlorine residual of 1.07 mg/L at Shana Park Well 11 (S10) in order to maintain compliance with CT6.
2.	Maintain a minimum pH of 7.2 at Shana Park Well 11 (S10), Allison Springs Well 13 (S09) and Allison Springs Well 19 (S11); a minimum 7.3 for McAllister Wellfield (S16) at Meridian Tanks; and a minimum pH of 6.8 in the Distribution System. Appropriate pH levels for Indian Summer Well 20, Kaiser RD Well and Hoffman Well are to-be-determined.
3.	Verify minimum chlorine residual of 0.2 mg/L in the distribution system through measurement of residual chlorine levels, as part of monthly system coliform sampling.
Objective 2C.	Respond to customer water quality concerns promptly and maintain accurate records.
Strate	gies
1.	Investigate, validate and respond to water quality complaints by way of phone calls, emails and/or site visits.
2.	Meet all reporting and record retention requirements.
Objective 2D.	Support the groundwater protection network for the collection and evaluation of monitoring groundwater quality.
Strate 3. 4.	gies Continue sampling groundwater protection monitoring wells in all drinking water protection areas (DWPA) to evaluate groundwater quality. Compare groundwater protection water quality sample results to source water quality results to ensure necessary response time in case of contamination detected in DWPAs.
Goal 3. Olymp	ia's water supplies are used efficiently to meet the present and future needs of the community and natural environment. (Chapters 5 & 6)
Objective 3A.	Reduce water use by 5 percent per connection. (Chapter 5)
Strate	gies
1.	Continue to implement flow reduction programs through partnership with the LOTT Clean Water Alliance and Cities of Lacey and Tumwater for single-family, multi-family and industrial/commercial/institutional (ICI) customers who receive LOTT sewer service.
2.	Continue to implement water-saving programs for residential City water customers who are on septic systems and therefore cannot participate in the LOTT programs.
3.	Continue outreach to raise awareness of the importance of water use efficiency.
4. (Continue to implement outdoor water use reduction programs for residential customers.
5. (Continue to implement the Efficient Irrigation Hardware Rebate Program for ICI customers.
6. (Continue outreach to raise awareness of the importance of water use efficiency.

Objective 3B	. Maintain water loss below 10 percent of production. (Chapter 5)				
Strategies					
1.	Continue to monitor water loss in the system annually, as required by the DOH, by evaluating production, authorized consumption (both metered and unmetered) and resulting Distribution System Leakage (DSL).				
2.	Continue to work closely with the Olympia Fire Department and surrounding fire districts to get accurate estimates of water used for fire suppression, fire flow testing, sprinkler flushing, and training conducted off-site.				
3.	Continue to work closely with the Utility's Operations & Maintenance section to monitor water loss due to field use, main breaks and leaks, as well as expanding leak detection efforts.				
4.	If the water system exceeds the DSL standard, develop and implement a Water Loss Control Action Plan as required by DOH.				
Objective 3C	Meet the needs of current and future City reclaimed water customers. (Chapter 6)				
Strate	gies				
1.	Continue to respond to inquiries about reclaimed water use, regulations, availability, capacity, opportunities, and requests for assistance with existing infrastructure.				
2.	Continue to implement and enforce the City's reclaimed water ordinance, engineering design and development standards and End User Agreements to ensure compliance.				
Objective 3D.	Prioritize use of reclaimed water to meet the regional wastewater management goal of reducing the amount of treated wastewater discharged into Puget Sound. (Chapter 6)				
Strate	gies				
1.	Pursue opportunities to increase infiltration of reclaimed water to recharge groundwater and enhance in-stream flows.				
2.	Participate as a LOTT partner in state and local reclaimed water regulation development and implementation activities, including presence on technical and advisory groups.				
3.	Support efforts to expand infrastructure for partnered or regional uses.				
4.	Pursue grants and other funding sources that support the reclaimed water program's regional objectives and strategies.				
Goal 4. Custo	mers have access to the information they need, have a role in accomplishing Utility goals, and participate in Utility decision making. (Chapter 1)				
Objective 4A.	Engage with drinking water customers regularly.				
Strate	gies				
1.	Work with Olympia's Utility Advisory Committee to develop and review drinking water policies, projects, programs and rates.				
2.	Provide useful information to customers through the Utility bill insert that accompanies each water bill.				
3.	Maintain the Utility's web pages with current information that is easy to find and understand.				
4.	Continue to produce the annual consumer confidence report, include information about its availability on the City website in an annual utility bill insert article and make copies available to the public as requested.				
5.	Consider postcard mailings to our customers as a way to communicate information about our drinking water system.				
6.	Work with the Storm and Surface Water Utility, the Wastewater Utility and other City departments to develop the tools necessary to evaluate the Utility's public outreach work in order to create more equitable outcomes for our customers.				

Objective 4B. Co	pordinate customer service and education with the City's other water resource utilities and LOTT.
Strategies	
1. Co	poperate with the Wastewater Management Utility, Storm and Surface Water Utility and LOTT on educational/promotional activities.
Goal 5. Groundw treatment	vater quality is protected to ensure clean drinking water for present and future generations and to avoid the need for replacement or tfacilities. (Chapter 7)
Objective 5A. P	revent contamination of groundwater through surveillance and response to evidence of existing, imminent or suspected contamination.
Strategies 1. (2. (Continue to monitor groundwater quality to understand risks to groundwater, detect contamination and evaluate pollution reduction efforts. Continue to improve spill prevention actions and implement spill response procedures.
Objective 5B. S	trengthen and exercise partnerships with tribal governments, state/local agencies, and citizen groups to protect groundwater.
Strategies 1. F 2. C	Raise awareness about the need to protect groundwater and positively influence human behaviors that place groundwater at risk. Collaborate on groundwater protection efforts with tribal, state, county and neighboring city agencies.
Objective 5C. In	nprove program policies, procedures and tools to enhance the effectiveness of groundwater protection efforts.
Strategies 1. (v	Continue to clarify the City's groundwater protection policies and streamline program procedures, including field methods and interactions with other City departments.
Goal 6. Infrastruct growing c	ture is prudently financed and sustainably constructed, maintained and operated to ensure reliable delivery of high quality water to a community. (Chapters 8-13)
Objective 6A. De	esign and construct infrastructure to ensure reliable delivery of water. (Chapters 8, 9, 10)
Strategies 1. D 2. D ti 3. V	Develop and maintain multiple, geographically dispersed sources of water supply to enhance the reliability of the system. (Chapter 8) Develop and maintain storage and transmission/distribution infrastructure to ensure delivery of water at state-required pressures throughout the system and maintain required fire flow (Chapters 9 & 10) Nork with the Storm and Surface Water Utility, the Wastewater Utility and other City departments to develop the tools necessary to evaluate utility services and decision processes in order to create more equitable outcomes for our customers.
Objective 6B. Co	ontinue to improve maintenance management, including preventive maintenance, repairs and replacements. (Chapter 12)
Strategies 1. De 2. M 3. M	ocument and report on equipment efficiency and capacity. laintain, clean and exercise equipment per manufacturer recommendations. laintain buildings and grounds for function, safety and neighbor aesthetics.

Objective 6C.	Continue to improve the Utility's emergency response program and maintain facility security. (Chapter 12)			
Strateg	gies second s			
1.	Plan for the anticipated impacts of sea level rise.			
2.	Continue to maintain and be prepared to implement the water system emergency response plan.			
3.	Store emergency supplies at several strategic locations and replenish before expiration dates.			
4.	Conduct tabletop and/or field exercises periodically.			
5.	Maintain existing security equipment at critical facilities.			
6.	Update or replace pump station telemetry system hardware and software as needed.			
7.	Following emergencies, conduct a briefing and prepare an after-hour report.			
Objective 6D.	Continue to improve O&M program management, including safety and asset management. (Chapter 12)			
Strateg	yies			
1.	Continue and expand scheduling and documenting all water system maintenance in the Utility's work order and asset management software.			
2.	Continue employee safety program, including safety committee review of accidents, review of new regulations and available training, and monthly staff training sessions.			
3.	Ensure that all Utility infrastructure is accurately depicted on maps and related databases.			
4.	Continue to refine the Utility's asset management program, in coordination with Public Works and City-wide efforts, to prioritize future capital improvement projects.			
5.	Continue to maintain and upgrade standard operating procedures.			
6.	Work with the Storm and Surface Water Utility, the Wastewater Utility and other City departments to develop the tools necessary to evaluate utility services and decision processes in order to create more equitable outcomes for our customers.			
Goal 7. Drinkin	g Water Utility finances are managed responsibly and costs are recovered equitably based on customer use. (Chapter 14)			
Objective 7A.	Set rates that reflect financial policies and recover the cost of providing services to each customer class.			
Strateg	gies second s			
1.	Increase annual depreciation funding to 75 percent of depreciation by 2026 in order to equitably charge current customers for the use and decline in value of the system.			
2.	Analyze how the tiered and seasonal rate structure is affecting consumption patterns/revenue and propose changes to the rate structure as appropriate.			
3.	Conduct a cost-of-service study for wholesale and retail customers on a six-year cycle or more often as needed.			
4.	Coordinate regular rate studies with the City's other water resources utilities, so that the full impact of utility rate increases on customers is considered.			
Objective 7B.	Manage Utility rates and connection fees consistent with the City's guiding principle of growth paying for growth.			
Strategies				
1.	Increase the General Facility Charges to reflect the current pro rata share of system costs.			
2.	Review General Facilities Charges regularly to ensure that they accurately and equitably distribute system costs to new development and are adjusted for inflation.			

Objective 7C. Use debt financing responsibly to support needed capital facility investments and "smooth" rate impacts.

Strategies

- 1. Continue the capital funding strategy that utilizes existing resources from reserves and general facility charges first before relying upon debt financing.
- 2. Maintain the required debt coverage ratio and a solid bond rating.
- 3. Pursue grants and state low-interest loans when available.

GOAL 8: The Utility implements all applicable City and region-wide climate change mitigation and adaptation measures.

Objective 8A: Reduce the Drinking Water Utility's greenhouse gas emissions.

Strategies

- 1. Meet City-wide greenhouse gas emissions reduction goals including those related to fleet and building operations.
- 2. Continue participation in Puget Sound Energy's Green Power Program.
- 3. Participate in the City's Climate Action Team, formed to coordinate the City's response to climate change including implementation of the Thurston Climate Mitigation Plan.

Objective 8B: Adapt drinking water infrastructure to accommodate predicted sea level rise projections.

Strategies

1. Elevate, flood proof or relocate low-lying infrastructure as may be required to addressing sea level rise.

Summary of Capital Projects

Table ES3 lists Capital Projects scheduled for construction in the next six years. Developer-contributed projects are not included in this table, as they will not require City funding. For a complete list of projects for the 20-year planning period, see Chapter 13, Table 13.2.

Project Schedule and Costs (in thousands of dollars) ¹							
Code	Project Name	2021	2022	2023	2024	2025	2026
Water	Source (WS)						
WS-1	Briggs Well Construction			100	1.600		
WS-2	McAllister Wellfield Mitigation -Deschutes River Basin	20	75	40	40	40	40
WS-3	Wellhead Protection Program Capture Zone Refinement						
WS-4	Groundwater Monitoring Wells	61	240	10			
WS-5	Olympia Brewery Water Engineering Analysis		400				
WS-6	Indian Summer Well Chlorination	21	50				
WS-7	Hoffman Well Treatment						
WS-8	McAllister Domestic Replacement Well	10	115				
WS-9	Deschutes Watershed Restoration		166				
WS-10	Sole Source Aquifer Designation			50			
WS-11	Shana Park Well VFD Replacement		130				
WS-12	Allison Well VFD Replacement			190			
WS-13	Rancho Serino Mitigation		50				
WS-14	McAllister Wellfield Phase 2						
Water S	Storage (ST)						
ST-1	Hoffman Court Reservoir Reconstruction						
ST-2	Boulevard Road Reservoir Rehabilitation Construction	8	3,000	50			
ST-3	Eastside Reservoir Reconstruction						435
ST-4	Elliot Reservoir (380 Zone) Evaluation			18			
ST-5	*Telecommunications Feasibility Analysis		24				
N/A	Elliot Avenue Reservoir Seismic Retrofits	518	10				
N/A	Fir Street Reservoir Seismic Retrofits	1,400	10				
Transm	ission and Distribution (TD)						
TD-1	Distribution System Oversizing		30	30	30	30	30
TD-2	Pressure Reducing Valves Installation – East Bay						
TD-3	Fones Road Water Main Construction	36	100	2,650	50	7	
TD-4	Indian Summer Water Main Extension to Rich Road						
TD-5	Decatur 298 Zone Connection						
TD-6	Eastside Street and Henderson Boulevard Water Main Extension				163	1,464	
TD-7	Elliot Avenue Water Main Replacement		308	208			
TD-8	Additional Isolation Valve Installation on the 36-inch Main		50	19	300	18	
TD-9	Cardinal Drive Water Main Extension	27	25				
TD-10	Zone 417 to 347 PRV Station Installation		50	260			
TD-11	36-inch Main Condition Assessment and Enhancement	130	386				
TD-12	New PRV Installations			40		40	

Table ES3 2020-2026 Recommended Capital Improvement Projects

Restoration and Renewal Projects (RR)							
RR-1	Small Diameter Water Mains	53	570	522	522	522	522
RR-2	Asphalt Overlay Adjustments		15	15	15	15	15
RR-3	Storage Tank Coatings						
RR-4	Booster Station Upgrades/Rehabilitation				250	525	50
RR-5	AC and Aging Pipe Replacements	56	990				1,000
RR-6	PRV Telemetry Installation		23				
RR-7	Distribution Main Condition Assessment		25	25	25	25	25
RR-8	On-site Generator Replacement Plan					100	
RR-9	Asset Management Program		60	60	60	60	60
RR-10	Corrosion Control Towner Condition Assessment &						
	Upgrades						
RR-11	*Water Meter Replacement	180	180	180	180	180	180
RR-12	*McAllister Mitigation – Woodland Creek	10	20	20	20	20	20
RR-13	Fire Suppression Systems Installations at Allison Wellsite and Shana Park			100			
RR-14	Security and Remote Systems Program Enhancements	4	258	58	58	58	58
RR-15	*Leak Detection Program Analysis		20	155			
RR-16	*Tank Inspection and Cleaning		24	36	24	24	36
RR-17	Franklin Street Water Main Replacement	380	150				
RR-18	Percival Creek Bridge Repairs	16	25				
Planning (PL)							
PL-1	*Water System Plan Update						250
PL-2	Infrastructure Pre-Design and Planning	2	100	150	150	150	150

Notes:

¹ In July 2021 dollars. 2021 costs reflect actuals.

* Represents projects funded from the Utility's operating budget

N/A marked projects have not been included in Chapter 13 project descriptions since the projects are substantially completed.

Planning Process

This Water System Plan has been prepared by a team of Utility staff representing all areas of the Utility, with technical assistance from HDR Engineering, Inc. and financial analysis by Financial Consulting Services Group.

The Water System Plan has been reviewed by the City's Utility Advisory Committee. The Utility Advisory Committee serves as the principal public advisor on utility policy matters for the City's four public utilities: Drinking Water, Wastewater, Storm and Surface Water, and Waste ReSources. Committee members played a key role in reviewing this Water System Plan and providing recommendations to clarify and improve it.

The fourth Utility Advisory Committee Water System Plan briefing (November 4, 2021) served as the water use efficiency goal setting public forum and was advertised as such on DOH's Water Use Efficiency website, announced through an E-newsletter article and noticed through the standard Utility Advisory Committee meeting notice process. Following a April 4, 2022 Utility Advisory Committee meeting, a TBD-week public comment period on the Water System Plan was held.

The Water System Plan has also been reviewed by Thurston County and the City of Olympia Community Planning and Development Department for consistency with local plans and regulations, as required by WAC 246-290-108 (Appendix ES2). (NOTE TO REVIEWERS: CONSISTENCY REVIEW CURRENTLY PENDING)

NOTE TO REVIEWERS: OLYMPIA CITY COUNCIL REVIEW AND APPROVAL IS CURRENTLY PENDING.

SEPA Review

The State Environmental Policy Act (SEPA) requires the City of Olympia to consider the potential environmental impacts of a proposal before making any final decisions. **(NOTE TO REVIEWERS: SEPA REVIEW CURRENTLY PENDING)**

(PROPOSED LANGUAGE PENDING COMPLETION OF SEPA REVIEW.) After reviewing the SEPA Checklist, the City's environmental review officer issued a Determination of Non-significance (DNS) on XXX (Appendix ES3). This means that no significant adverse environmental impacts were identified. No comments were received from the public nor were any appeals filed.

Potential impacts of construction projects planned for 2021-2026 were not specifically evaluated; they will be evaluated in a separate SEPA process when each project is designed.

Public Hearing

As part of the water system planning process, DOH requires utilities to hold public hearings to give the community an opportunity to comment on the water system plan. A staff briefing and public hearing on the Water System Plan was held during the XXX, City Council meeting. The meeting agenda and minutes, which reflect Council's action on the Water System Plan, are included as Appendix ES4. (NOTE TO REVIEWERS: PUBLIC HEARING CURRENTLY PENDING)

(PROPOSED LANGUAGE PENDING COMPLETION OF PUBLIC HEARING) Notice of the draft Water System Plan was posted on DOH's Water Use Efficiency website and was noticed through the standard Council meeting public notice process. The complete 2021-2026 Water System Plan is available at <u>olympiawa.gov</u>.

Plan Implementation

The Utility is currently comprised of four sections (Water Quality and Cross Connection Control; Drinking Water Operations; Pump Stations Operations; Water Resources Engineering and Planning). This organizational structure requires cross sectional coordination to effectively implement the Utility's nine programs:

- Source of Supply
- Conservation
- Reclaimed Water
- Groundwater Management
- Water Quality
- Operations and Maintenance
- Asset Management
- Capital Facilities
- Financial

Formal cross-sectional coordination occurs at Drinking Water Coordination Team meetings, held every other week under the leadership of the Utility's Water Purveyor.

Although not a regulatory requirement, the Utility has elected to demonstrate its commitment to implementation by including a plan implementation strategy as a component of this Water System Plan. (See Appendix ES1 Plan Implementation, Staffing and Monitoring.)

The Drinking Water Coordination Team will be responsible for reporting on implementation strategy progress on an annual basis and making adjustments as needed.

Continuing to take an "asset management" approach to infrastructure maintenance, renewal and replacement decisions is key to the Utility's implementation strategy. While much work has been done to date by the Utility to gather the data necessary to make informed "at the right time" infrastructure decisions, the Utility is committed to continuously improving its asset management program. To gain support for the significant investment that will be required to address the Utility's aging infrastructure, presenting refined estimates of 50-year infrastructure renewal and replacement costs to decision-makers and the community will be necessary over the planning period.