

Utility Plans Briefing





Utility Advisory Committee







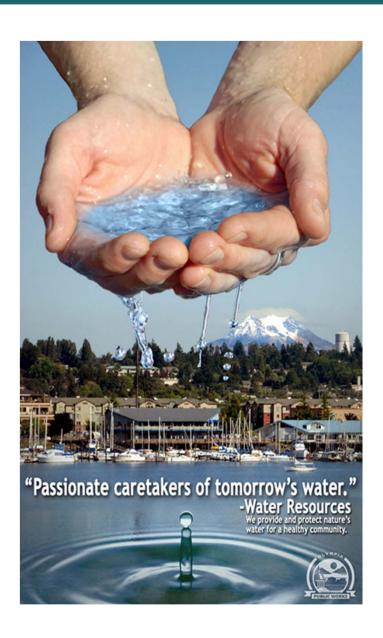


Tonight's Agenda

- 1) Water System Plan
- 2) Wastewater Management Plan
- 3) Storm and Surface Water Plan

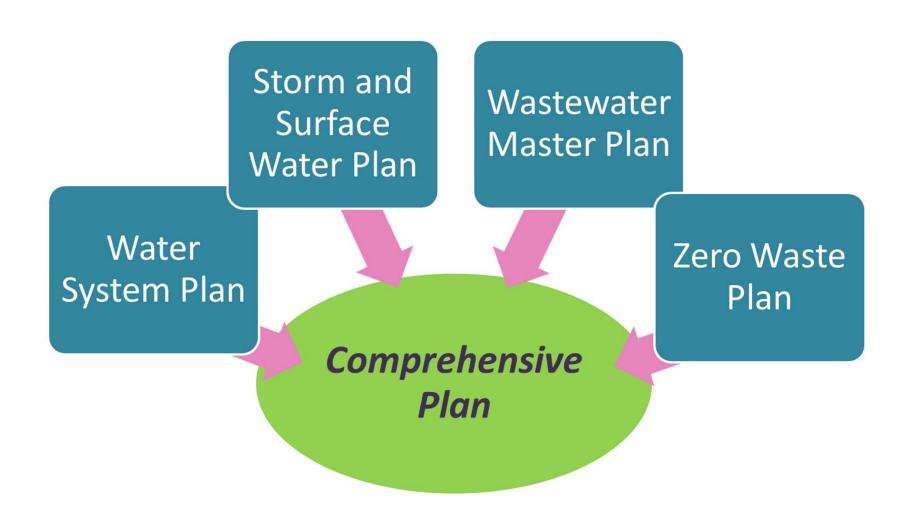
Missions
Key Challenges
Capital Improvement Plans
Goals, Objectives and Strategies

- 4) Waste ReSources Management Plan Ron Jones
- 5) Questions





Planning Framework

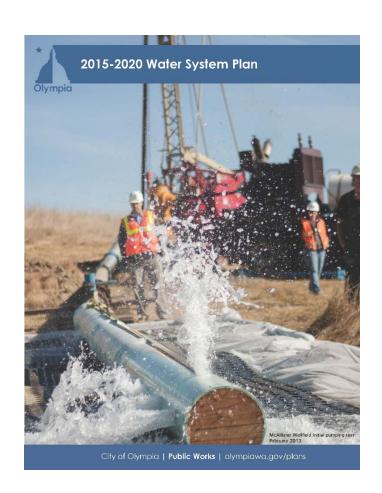




Water System Plan

Mission

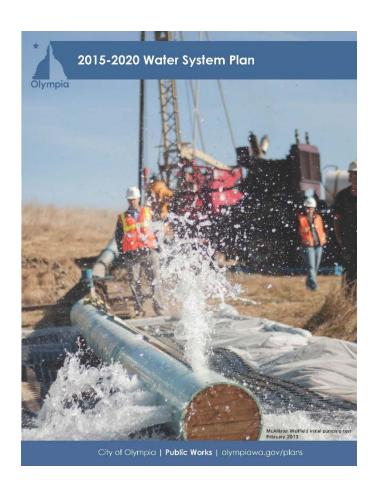
 to provide and protect healthy drinking water for the community.





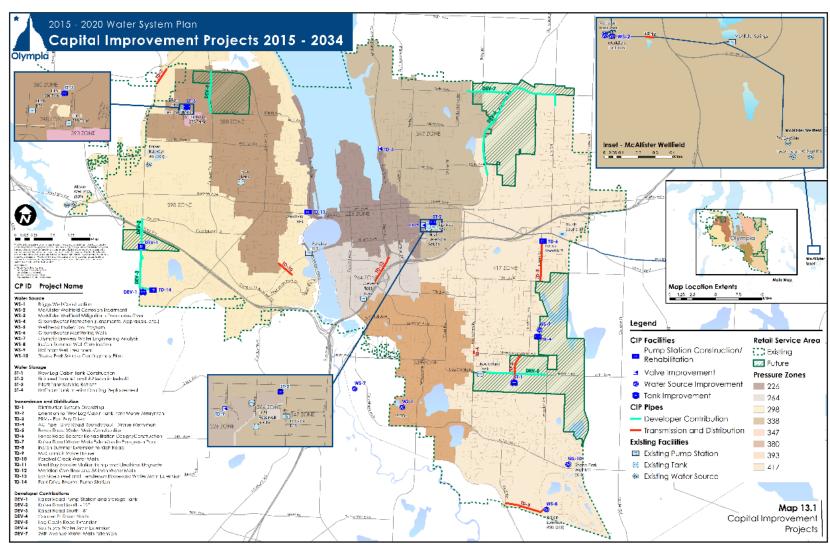
Water System Plan

- 2015-2020 (6 year plan with option to change to a 10-year plan)
- Required by WAC 246-290-100





Capital Improvements Plan

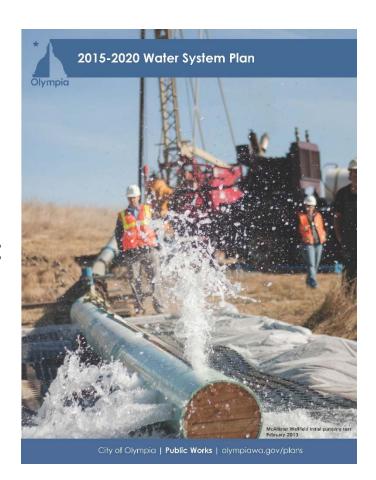




Water System Plan

Key Challenges

- Aging infrastructure
- Changing water quality regulations
- Keeping up with development
- Protecting groundwater
- Equitable and predictable rates
- Public education and involvement





Goals, Objectives, Strategies

Goal 3. Olympia'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 indoor use by an additional 100,000 gallons per day (gpd) over past program savings.(Chapter 5)

Strategies

- 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.

Objective 3B. Reduce outdoor use by an additional 5 percent over past program savings. (Chapter 5)

Strategies

- 1. Continue to implement outdoor water use reduction programs for residential customers.
- 2. Continue to implement the Efficient Irrigation Hardware Rebate Program for ICI customers.
- 3. Continue outreach to raise awareness of the importance of water use efficiency.

Objective 3C. Maintain water loss below 10 percent of production. (Chapter 5)

Strategies

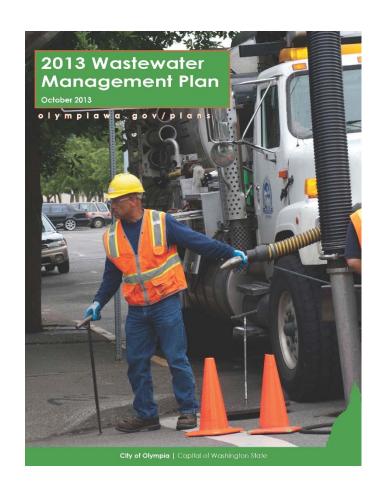
- 1. Continue to monitor water loss in the system annually, as required by the DOH, by evaluating production, authorized consumption (both metered and unmetered) and resulting Distribution System Leakage (DSL).
- Continue to work closely with the Olympia Fire Department and surrounding fire districts to get accurate estimates of water used for fire suppression, fire flow testing, sprinkler flushing and training conducted offsite.
- 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.



Wastewater Management Plan

Mission

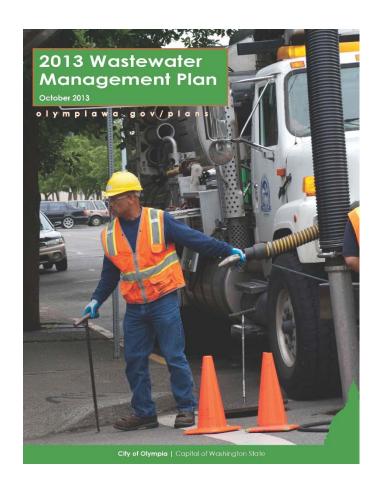
 to collect and convey wastewater to treatment facilities in a manner that protects the health of both the public and our environment





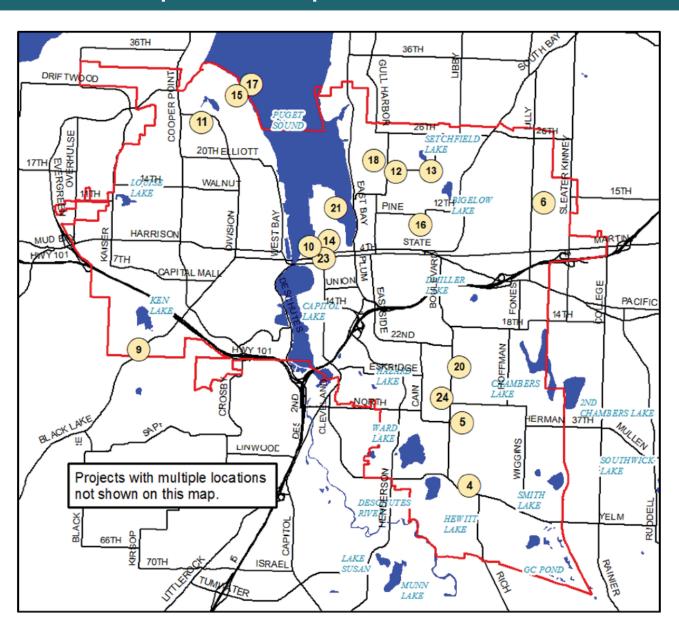
Wastewater Management Plan

- 2013-2018 (6 year plan)
- Required by WAC 173-240-050





Capital Improvements Plan

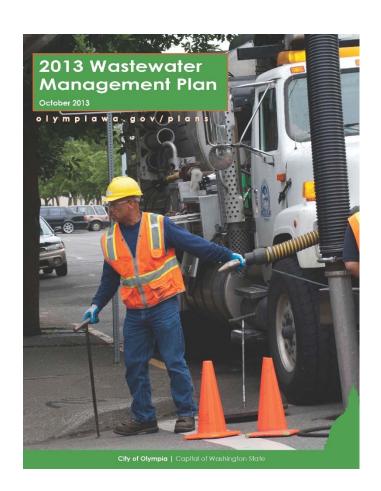




Wastewater Management Plan

Key Challenges

- Existing infrastructure
- Onsite sewage systems
- Sewer extensions
- Coordination with LOTT
- Equitable and predictable rates
- Public education and involvement
- The biggest Sea level rise





Goals, Objectives, Strategies

Goal 1. Clean Water Act and Safe Drinking Water Act standards for nitrogen, fecal coliform and other constituents of concern in groundwater and surface water are met.

Objective 1A. Identify and eliminate at least two illicit discharges of wastewater into stormwater conveyance pipes and receiving waters each year.

Strategies

1. In partnership with the City's Storm and Surface Water Utility, detect and eliminate illicit discharges using water quality testing, GIS analysis, remote video inspection and funding assistance.

Objective 1B. Manage existing and potential new OSS so there is no net annual increase in the total number of OSS in Olympia's sewer service area.

Strategies

1. Refine regulations regarding new OSS and repairs of existing OSS in order to accommodate the limited use of new OSS systems in appropriate circumstances.

Objective 1C. Encourage OSS conversions through the Septic to Sewer Program.

Strategies

- 1. Provide Utility funding for sewer extensions associated with individual OSS conversions.
- 2. Allow payment of wastewater connection fees for OSS conversions over longer periods of time.
- 3. Provide technical assistance and public education for individual and neighborhood OSS conversions to municipal sewer.

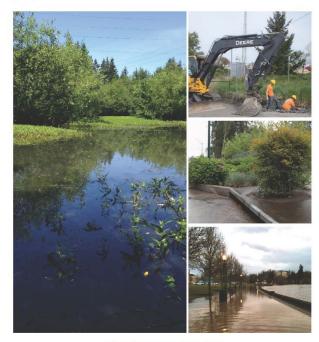


Storm and Surface Water Plan

Mission

 to provide services that minimize flooding, improve water quality, and protect or enhance aquatic habitat





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Storm and Surface Water Plan

- 2017 2026 (10 year plan)
- No regulatory requirement

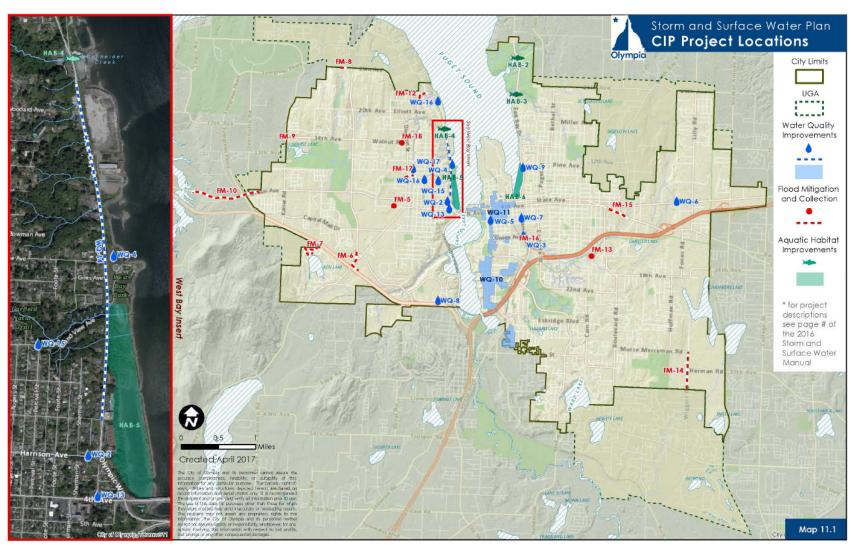




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Capital Improvements Plan



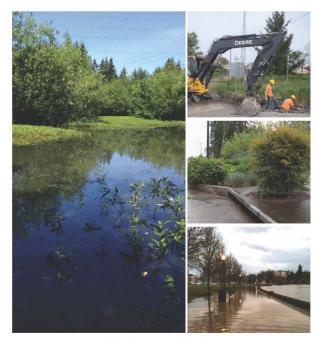


Storm and Surface Water Plan

Key Challenges

- Existing infrastructure
- Reliance on choices by individuals (WQ and habitat)
- Climate change/ sea level rise
- Asset management
- LID limitations
- Increasing permit requirements
- Equitable and predictable rates
- Habitat fragmentation





olympiawa.gov/sswplan



SSW Plan Implementation

Program Development Core Service: Pollution Prevention . Ensure inspection and maintenance standards for private and public · Develop post-construction inspection and maintenance capabilities for stormwater treatment facilities are being met. public stormwater facilities. Focus should be on LID implementation, This core service includes the following programs: Develop sediment tracking program for management of sources staffing, and training. Illicit Discharge Investigation through maintenance activities (street sweeping, ponds, catch basin, Perform inspections, maintenance, repairs and installations on utility Illicit Discharge Prevention ditch maintenance, etc.) infrastructure in anticipation of sea level rise. **Education and Outreach** Investigate sources of pollutants of concern citywide. Provide education and outreach about water quality with emphasis on **O&M Spill Response** Respond, document and report spills in a timely manner. how to reduce or eliminate behaviors and practices that contribute to **O&M Cleaning (Pipes and Structures)** negative stormwater impacts. Develop WQ pollution prevention training and tracking program for Stormwater Facility Maintenance (Pond sed) field staff with responsibilities in IDDE/Spills, Erosion Control, and O&M. Support the City's temporary erosion and sediment control inspection Street Sweeping and enforcement program. Continue catch basin and manhole inspection and cleaning program. Solids Management Maintain and improve the program to address illicit discharges, Comply with NPDES permit requirements. Enhance public outreach and education for stormwater system including spills and illicit connections. Pollution Prevention Team Develop a street sweeping program focused on improving water functions, operations and maintenance. Sue, Steve, Jeremy, Tom, Tami, Susan, John Adaptive Management Program Implementation Expand inspections beyond NPDES requirements. Develop a business pollution prevention program that includes · Develop CCTV program to provide long term utility condition rating, Team Lead/Facilitator coordination with adjacent jurisdictions. investigation, and emergency response. Develop a program to evaluate and prioritize retrofits of existing Manage sediment in a manner that complies with applicable regulations and is done in a cost efficient manner. Management Lead: untreated pollution generating infrastructure. Marcus, Eric and Joe Develop a rate structure to incentivize retrofitting private stormwater systems to provide higher levels of water quality treatment. Continue to monitor the health and water quality of City streams and Ensure stormwater pollution prevention plans (SWPPPs) are developed and implemented for all heavy equipment and/or material storage facilities owned or operated by the City. Long Term Outcome Targets Mid Term Outcome Targets **Output Targets** Inputs to Achieve (Current Service Profiles & Measures) **Annual Outcome Assessment** (5-10 Years) (3-5 years) (1-3 years) Outputs / Targets Service profiles Discharge Investigation # Discharge Investigations 3.55 FTE's # Private Storm Systems Private Systems inspected Acres of SSW property Acres of Veg. managed (Funds) # Facilities # Facilities maintained Tons-Sed. from ponds Miles of Pipe Miles of pipe televised Roadway miles # CB's Roadway miles swept Tons-sed, from sweeping # CB's cleaned Tons-sediment from CB's Program Cost in FTE and \$ (Annual Budget) (Annual Budget) (Annual Budget) (Annual Budget) (Roundtable Performance Metrics) (Roundtable Performance Metrics) (Roundtable Performance Metrics) Service Profile **Projected Service Profile**

Program Evaluation

2015 – 2020 Waste ReSources Management Plan

Goal 1: Reduce the quantity of waste generated and disposed of in Olympia

Goal 2: Increase the quantity of recyclable and compostable materials diverted from the landfill

Goal 3: Operate collection services safely and efficiently

Goal 4: Manage the Utility's finances responsibly, with fair, equitable rates that promote waste reduction and recycling

2020

Zero Waste

2017 Accomplishments

- Hauling and Processing Contracts (G-4)
- Route Efficiencies (G-3)
- Annexations (G-3)
- Technology in Collections (G-3)
- Downtown Shared Compactor (G-3)
- Recycle Coach (G-2 & G-3)
- Commercial Waste Assessments (G1 & G-2)
- Multi-Family Outreach (G-2)
- 3rd Grade Education (G-1)
- Development Review (G2, 3 & 4)







2018 Work Plan

- Cost of Service and Rate Study (G-4)
- Exploring 2nd Downtown Shared Compactor Site (G-3)
- 6th Grade Education (G-1)
- Lid lifts and Cart Tagging (G-2)
- Continue to Evaluate Commercial Recycling (G-2)
- Responding to China's Restrictions to Recycle Imports

