

2019 – 2024 Draft Capital Facilities Plan

Drinking Water, Wastewater and
Storm and Surface Water Utilities

Utility Advisory Committee
May 3, 2018

* Topics

- Background
- Projects to be underway in 2019
- Review of 2019 projects and their costs
- Next steps

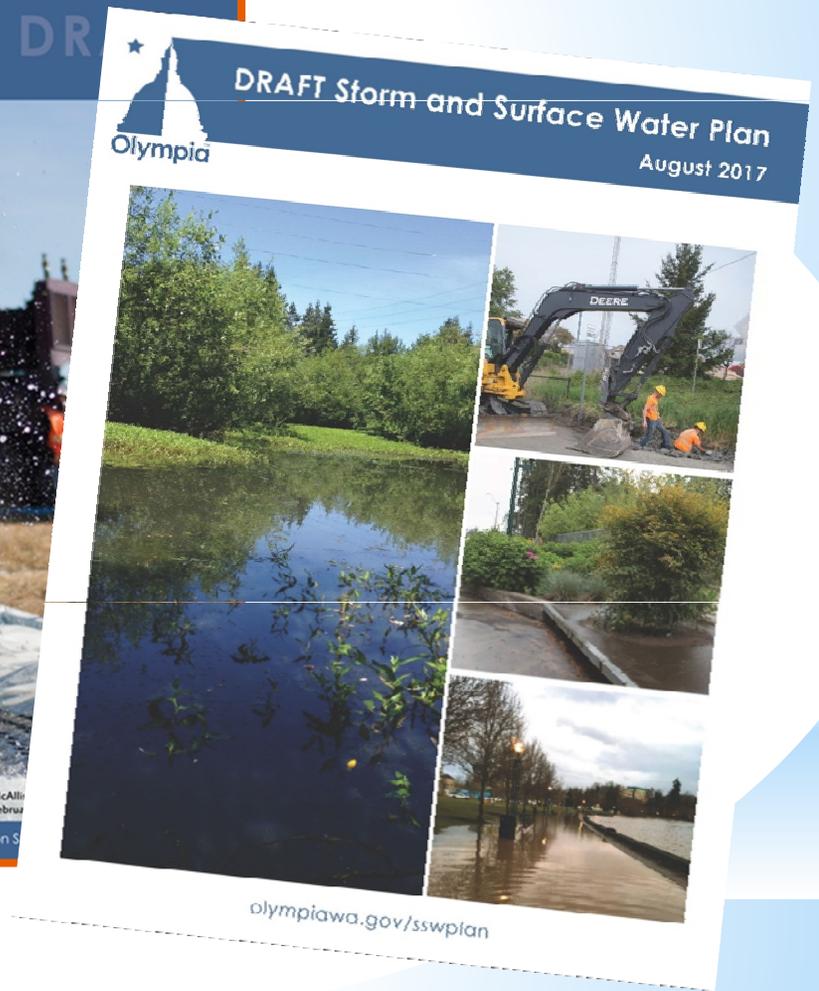
CFP Background

- 6-year plan with annual updates
 - First year is authorized by City Council to proceed
- Required by State Growth Management Act
 - Becomes part of the City Comprehensive Plan
- Covers Water Resource utilities as well as Transportation, Parks, and General Government
 - Separate funding with project coordination
- Key element of overall Utility finances
 - Roughly 1/3 of annual budgets
 - Rate implications

Capital Facility Planning

- Approach
 - Meet public health, safety, and natural resource responsibilities
 - Meet legal or statutory requirements
 - Balance needs with affordability
 - Take care of current and likely future problems
 - Incorporate sustainability concepts
 - Foster community pride and sense of place

Incorporating Utility Master Planning



Prioritizing Projects

- State and Federal mandates
- Capacity
- Master Plan objectives
- Coordination with other projects (Transportation)
- Condition rating/ Proactive maintenance
- Safety and emergency preparedness
- Environmental stewardship
- Innovation
- Opportunity
- Operations & maintenance costs

Drinking Water Utility

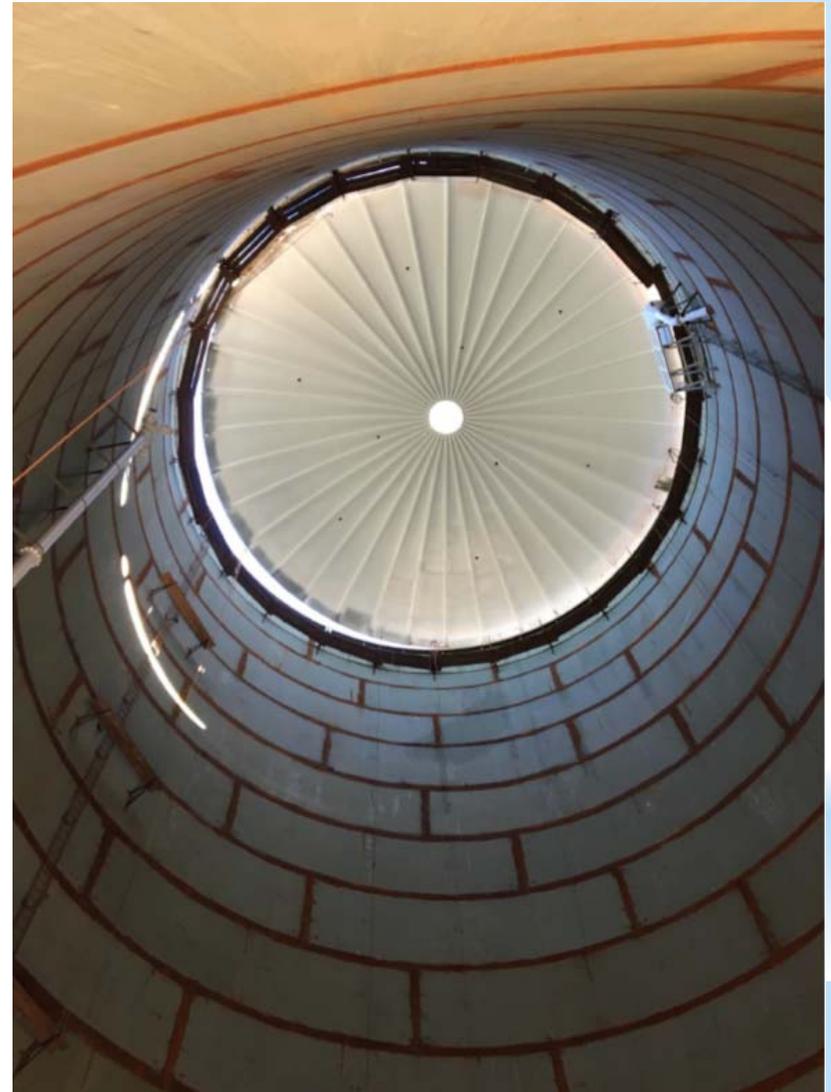


*Overview

- Water System Plan adopted in 2015
 - Good understanding of capital needs
- Comprehensive Utility financial analysis completed in 2015
 - Rates, bonds, loans, and postponement
- Continued costly projects
 - \$17M in projects currently in construction

Recent Big Accomplishments

- McAllister Wellfield
- Fones Road Booster Pump Station
- Meridian Corrosion Control
- Log Cabin Reservoir scheduled for completion in August



2018 Key Projects List

Program	Description
9408	Small Diameter Water Pipe Replacement
	Small Diameter Water Pipe Replacement Design
9609	Transmission and Distribution
	Meridian Corrosion Control Aeration Towers Construction
	Aging Pipe Replacement Design
	Fones Road Booster Pump Station Construction
	West Bay Booster Pump Station Upgrade Construction
	Kaiser Road Water Main Extension Design
	McCormick Valve House
9610	Water Storage Systems
	Log Cabin Reservoir Construction
	Elliott Reservoir Seismic Retrofit Design
	Fir Street #1 and #2 Reservoirs Seismic Retrofit Design
	Boulevard Reservoir Coating Replacement Design
9700	Water Source Development & Protection
	McAllister Wellfield Mitigation (Smith Property Restoration Construction)
9701	Groundwater Protection
	Groundwater Monitoring Wells Construction

2019 Key Projects List

Program	Description	Phase
9408	Small Diameter Water Pipe Replacement	
	Small Diameter Water Pipe Replacement	Construct
9609	Transmission and Distribution	
	Aging Pipe Replacement Construction	Construct
	Kaiser Road Water Main Extension Construction	Construct
	Fones Road Water Main Design	Design
	Park Drive Booster Pump Station Design	Design
	Pressure Reducing Valve Construction - East Bay Drive	Construct
	Kenyon Ross Intertie and Otis St PRV Construction	Construct
9610	Water Storage Systems	
	Elliot Reservoir Seismic Retrofit Construction	Construct
	Fir Street #1 and #2 Reservoirs Seismic Retrofit Construction	Construct
	Boulevard Reservoir Coating Replacement Construction	Construct

* Specific 2019 Drinking Water Projects

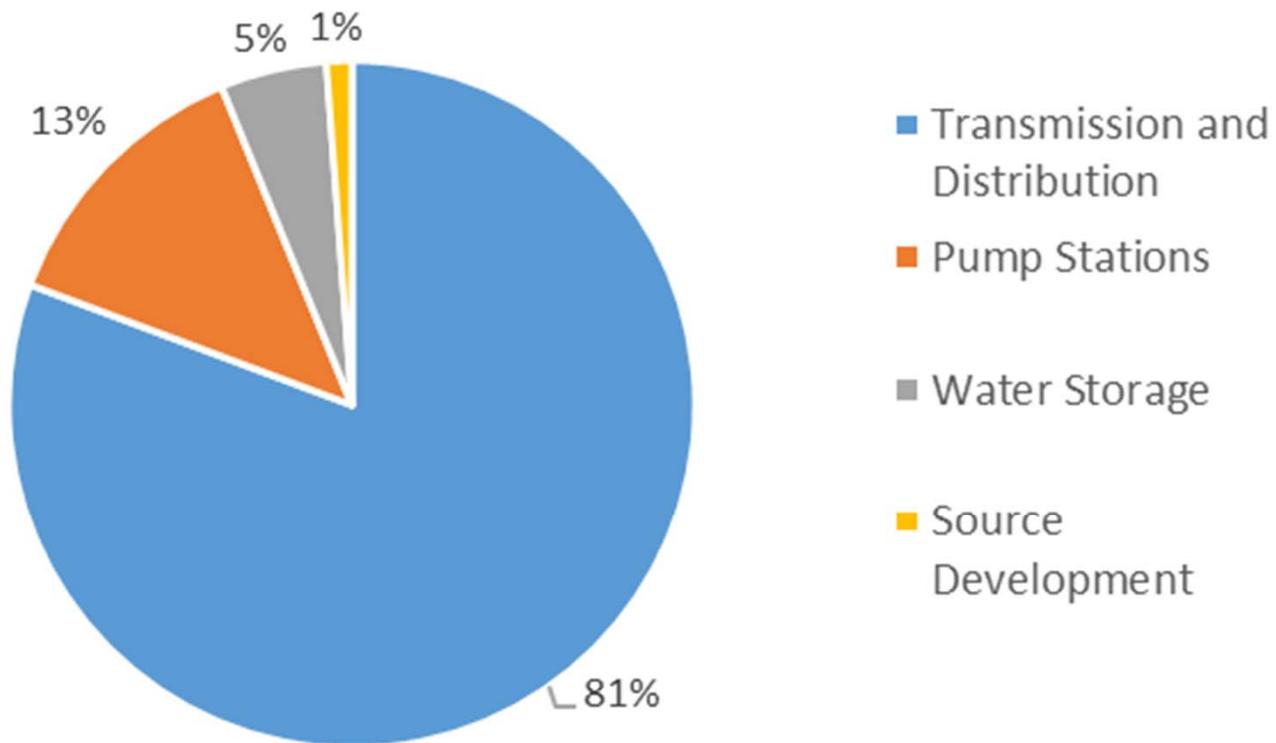
Program	Description	Project Years	Total Expenditure (2019-2024)		2019
9021	Asphalt Overlay Adjustments Asphalt Overlay Adjustments	Annual	\$	72,000	\$ 12,000
9408	Small Diameter Water Pipe Replacement Small Diameter Water Pipe Replacement	Annual	\$	3,480,000	\$ 580,000
9609	Transmission and Distribution				
	Aging Pipe Replacement	Annual	\$	3,480,000	\$ 580,000
	Asset Management Program	Annual	\$	354,000	\$ 59,000
	Corrosion Control Aeration Tower Condition Assessment & Upgrades	Annual	\$	180,000	\$ 30,000
	Cross Country Mains	Annual	\$	180,000	\$ 30,000
	Distribution and Transmission Main Condition Assessment	Annual	\$	1,140,000	\$ 190,000
	Distribution System Oversizing	Annual	\$	192,000	\$ 32,000
	On-site Generator Replacement Plan	Annual	\$	528,000	\$ 88,000
	Security and Remote Systems Plan	Annual	\$	330,000	\$ 55,000
	Booster Station Upgrade / Rehabilitation	Annual	\$	1,050,000	\$ 175,000
	Water Meter Replacement Program	Annual	\$	1,626,000	\$ 271,000
	Fones Road Water Main Design	2019	\$	340,000	\$ 340,000
	Park Drive Booster Pump Station Design	2019	\$	284,000	\$ 284,000
	Pressure Reducing Valve - East Bay Drive	2019	\$	301,000	\$ 301,000
	Kenyon Ross Intertie and Otis St PRV	2019	\$	232,000	\$ 232,000
9610	Water Storage Systems Storage Reservoir Coatings (Interior/Exterior)	Annual	\$	1,050,000	\$ 175,000
9700	Water Source Development & Protection				
	McAllister Wellfield Mitigation (Smith Property Restoration)	Annual	\$	186,000	\$ 31,000
	McAllister Wellfield Mitigation (Woodland Creek Infiltration Facility)	Annual	\$	66,000	\$ 11,000
9903	Infrastructure Pre-Design and Planning Pre-Design and Planning	Annual	\$	144,000	\$ 24,000
TOTAL			\$	27,503,000	\$ 3,500,000

Drinking Water

Proposed CFP Funding by Year

Year	Proposed CFP Funding
2019	\$3,500,000
2020	\$6,768,400
2021	\$2,407,000
2022	\$3,288,000
2023	\$6,675,000
2024	\$4,865,400
TOTAL	\$27,503,000

Drinking Water Funding Distribution



Drinking Water Summary

- CFP is consistent with current and potential future Water System Plan
- Key projects need to move forward
- More and more energy into priority setting and financial management
- Continued rate implications – CFP underfunded 25%

Wastewater Utility



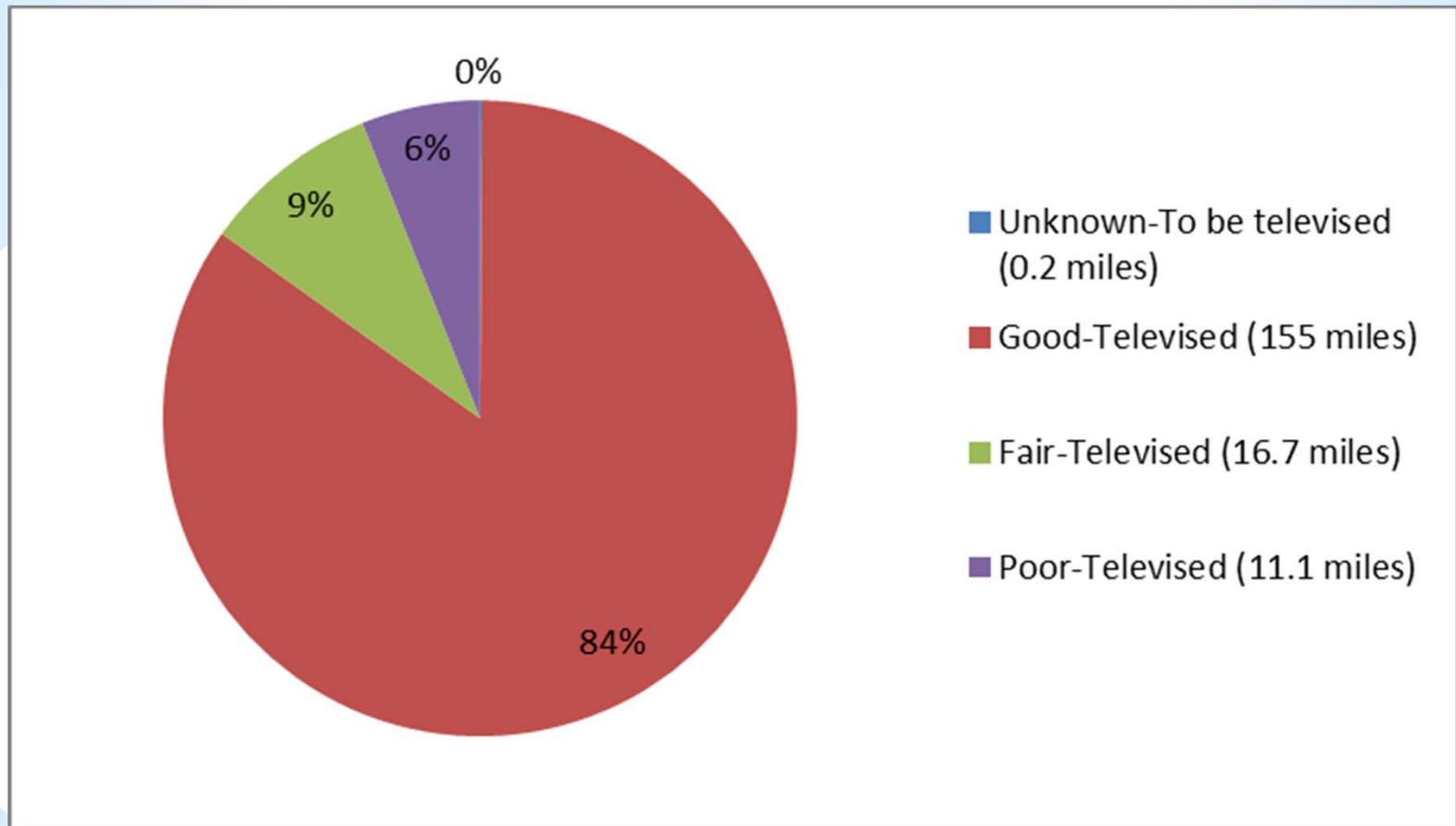
Wastewater CFP

- 2013 Wastewater Management Plan
 - Being implemented ...straightforward
 - Working on new plan for 2019
- Key infrastructure responsibilities
 - Lift station upgrades
 - Existing pipe repairs and upgrades
 - Occasional new pipe extension
 - Onsite septic system conversions

* Overview

- Modest future needs
 - Keep up with pump stations retrofits
 - Repair pipes
 - Facilitate septic system conversions
 - Could become a bigger program
- Expect rate-based finances
 - Minimal or no loan and bond funding
- Televising and condition rating of pipe system complete
- Manhole inspections 65% complete

Wastewater Condition Rating



No change.

2018 Key Projects List

Program	Description
9703	Replacements and Repairs
	Prioritized Repairs Construction
	Residential STEP Rehabilitation Equipment
9806	Lift Stations
	Water St Lift Station Generator Design
	Southeast Odor Control Construction
	East Bay Marina Force Main Construction
	Old Port I Lift Station Upgrade Design
9808	Sewer System Planning
	Asset Management Implementation (Software)
9813	Onsite Sewage System Conversions
	Chamber Creek Apartments Conversion
	Annual Sewer Extensions
	Neighborhood Sewer Program

2019 Key Projects List

Program	Description
9703	Replacements and Repairs
	Prioritized Repairs Construction
	Residential STEP Rehabilitation Equipment
9806	Lift Stations
	Miller and Central Lift Station Upgrade Design
	Water St Lift Station Generator Construction
	Old Port I Lift Station Upgrade Construction
	Old Port II Lift Station Upgrade Design
9813	Onsite Sewage System Conversions
	Annual Sewer Extensions Construction
	Neighborhood Sewer Program Construction

* Specific 2019 Wastewater Projects

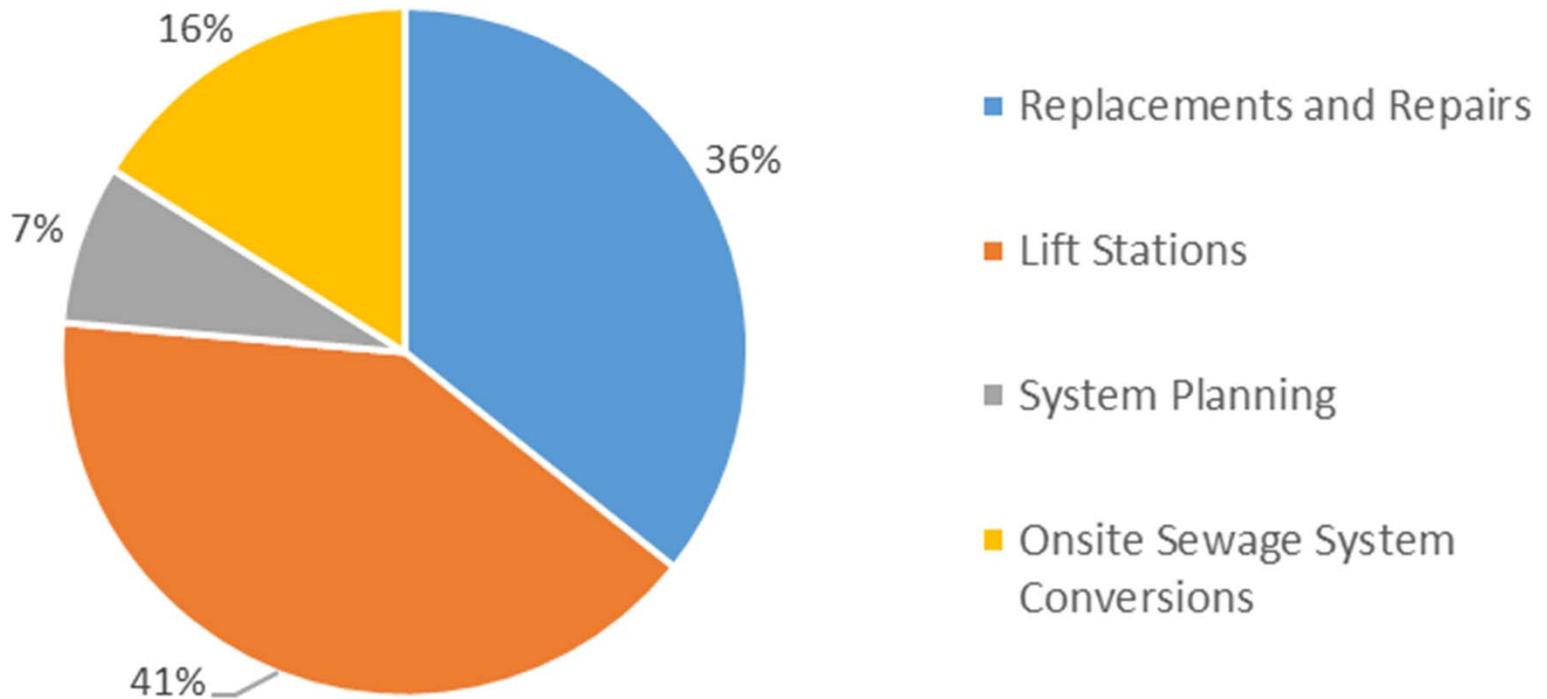
Program	Description	Project Years	2019
9021	Asphalt Overlay Adjustments		
	Asphalt Overlay Adjustments	Annual	\$ 12,000
9703	Replacements and Repairs		
	Prioritized Repairs	Annual	\$ 515,000
	Spot Repairs	Annual	\$ 116,000
	Side Sewer Repairs	Annual	\$ 26,000
	Residential STEP Rehabilitation Equipment	2019 - 2021	\$ 150,000
9806	Lift Stations		
	Miller and Central Lift Station Upgrade Construction	2019	\$ 697,000
	Onsite Generator Replacement Plan	Annual	\$ 88,000
	Water St Lift Station Generator Construction	-	
	Old Port II Lift Station Upgrade Design	2019	\$ 148,000
9808	Sewer System Planning		
	Sewer System Televising and Condition Rating Program	Annual	\$ 25,000
	Sewer Force Main Condition Assessment Program	Annual	\$ 33,000
	Asset Management Implementation	2019	\$ 70,000
9813	Onsite Sewage System Conversions		
	Annual Sewer Extensions	Annual	\$ 175,000
	Neighborhood Sewer Program	Annual	\$ 195,000
9903	Infrastructure Pre-Design and Planning		
	Pre-Design and Planning	Annual	\$ 44,000
	TOTAL		\$ 2,294,000

Wastewater

Proposed CFP Funding – By Year

Year	Total Proposed CFP Funding
2019	\$2,294,000
2020	\$1,963,000
2021	\$1,437,000
2022	\$1,607,000
2023	\$1,171,000
2024	\$1,723,000
TOTAL	\$10,195,000

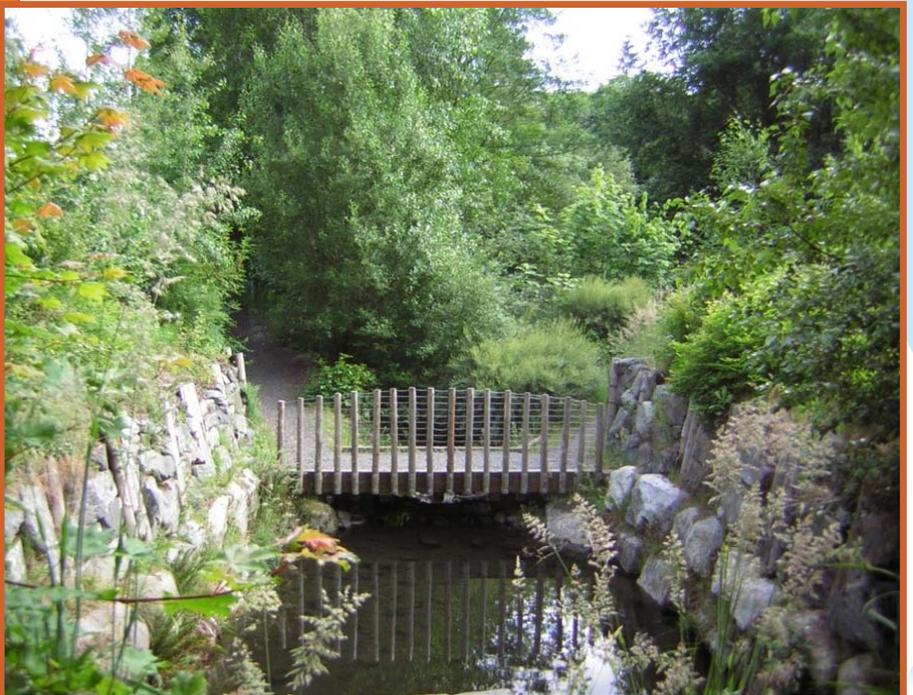
Wastewater Funding Distribution



Wastewater Summary

- CFP is consistent with the Wastewater Management Plan
- High level of knowledge regarding infrastructure condition and integrity
- Proactively rehabilitating older pump stations
- No needs for pipe capacity upgrades at this time
- Onsite septic system conversions and sewer extensions have picked up with CDC rebates
- New Wastewater Management Plan being initiated this year

Storm and Surface Water Utility



Storm and Surface Water Plan

Adopted in April



DRAFT Storm and Surface Water Plan

August 2017



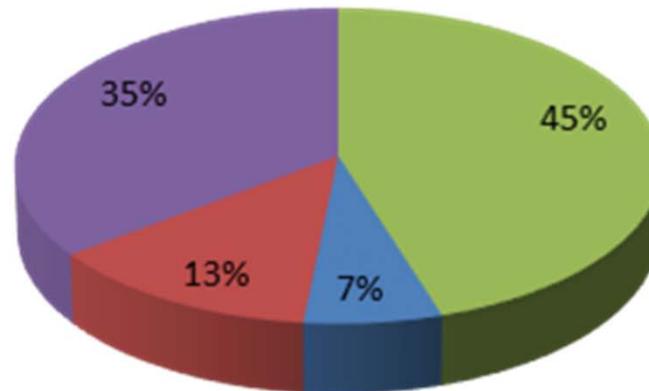
olympiawa.gov/sswplan

* Overview

- New Storm and Surface Water Plan
 - Goals, level of service and finances
 - Broad responsibilities
- Using State grants and loans for water quality retrofits
 - High-traffic, commercial corridors
- Pipe televising and condition rating 65% complete

Stormwater Pipe Condition Rating

2017 Televised Storm Pipe Condition Rating



■ Good - 71.8 miles

■ Fair - 10.4 miles

■ Poor - 20.7 miles

■ Unknown - 56.2 miles
(To be televised)

Key 2018 Projects

Program	Description	Project Years
9001	Asphalt Overlay Adjustments Asphalt Overlay Adjustments	Annual
9024	Aquatic Habitat Improvements Habitat Improvement/Stewardship	Annual
9027	Water Quality Improvements Neighborhood LID Design Grant Harrison Water Quality Retrofit	2018 2018
9028	Flood Mitigation and Collection Conveyance Spot Repairs (Pipe Replacement) Condition Rating Existing Conveyance Public Pond Rehabilitation ("City Owned Stormwater Pond Rehab") Downtown Flood Mitigation Cooper Point and Black Lake Conveyance Design	Annual Annual Annual Annual 2018
9903	Infrastructure Predesign and Planning Infrastructure Predesign and Planning Pervious Pavement Contingency Fund Asset Management Program	Annual Annual Annual

Key 2019 Projects

Program	Description	Project Years
9001	Asphalt Overlay Adjustments Asphalt Overlay Adjustments	Annual
9024	Aquatic Habitat Improvements Habitat Improvement/Stewardship Property Acquisition	Annual Annual
9027	Water Quality Improvements Brawne Avenue Retrofit (West Bay #5)	2019
9028	Flood Mitigation and Collection Conveyance Spot Repairs (Pipe Replacement) Condition Rating Existing Conveyance Public Pond Rehabilitation ("City Owned Stormwater Pond Rehab") Downtown Flood Mitigation Ascension and 4th Avenue Facility	Annual Annual Annual Annual 2019
9903	Infrastructure Predesign and Planning Infrastructure Predesign and Planning Pervious Pavement Contingency Fund Asset Management Program	Annual Annual Annual

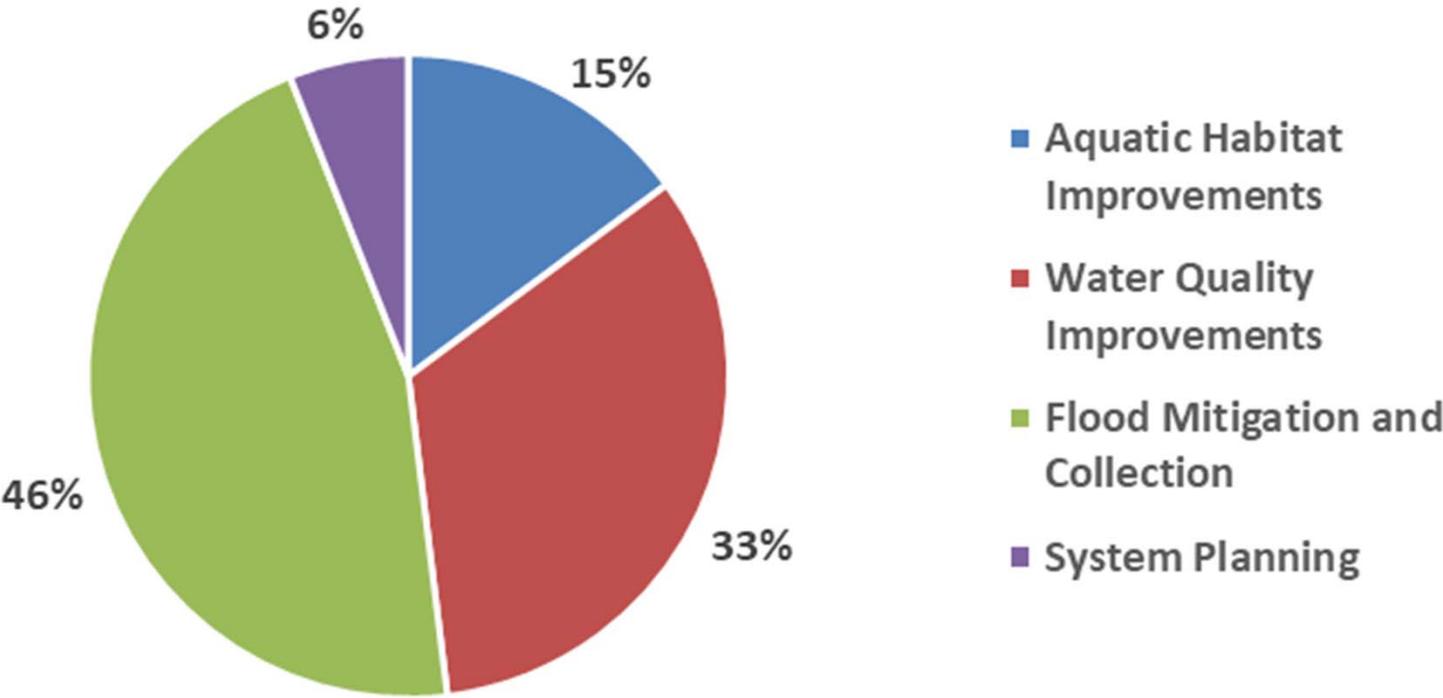
* Specific 2019 Storm and Surface Water Projects

Program	Description	Project Years	Total Expenditure (2019-2024)	2019
9001	Asphalt Overlay Adjustments Asphalt Overlay Adjustments	Annual	\$ 1,210,310	\$ 201,718
9024	Aquatic Habitat Improvements Habitat Improvement/Stewardship	Annual	\$ 1,726,234	\$ 287,706
	Property Acquisition	Annual	\$ 600,000	\$ 100,000
9027	Water Quality Improvements Brawne Avenue Retrofit (West Bay #5)	2019	\$ 865,280	\$ 865,280
9028	Flood Mitigation and Collection Conveyance Spot Repairs (Pipe Replacement)	Annual	\$ 512,678	\$ 85,446
	Condition Rating Existing Conveyance	Annual	\$ 690,926	\$ 153,804
	Public Pond Rehabilitation ("City Owned Stormwater Pond Rehab")	Annual	\$ 324,480	\$ 54,080
	Downtown Flood Mitigation	Annual	\$ 794,976	\$ 132,496
	Ascension and 4th Avenue Facility	2019	\$ 299,603	\$ 299,603
	Cooper Point and Black Lake Conveyance	2019	\$ 5,083,520	\$ 270,400
9903	Infrastructure Predesign and Planning Infrastructure Predesign and Planning	Annual	\$ 324,480	\$ 54,080
	Pervious Pavement Contingency Fund	Annual	\$ 162,240	\$ 27,040
	Asset Management Program	Annual	\$ 454,272	\$ 75,712
TOTAL			\$ 19,918,782	\$ 2,607,365

Storm and Surface Water Proposed CFP Funding by Year

Year	Total Proposed CFP Funding
2019	\$2,607,365
2020	\$1,864,306
2021	\$2,286,130
2022	\$2,837,746
2023	\$2,597,955
2024	\$7,725,280
TOTAL	\$19,918,782

Storm and Surface Water Funding Distribution



Storm and Surface Water Summary

- Large flood mitigation project pushed out
- Continued funding of habitat stewardship
- Assuming successful water quality retrofit grant funding
- Modest funding for downtown sea level rise
- Need to better understand the long-range implications of low impact development code revisions

Next Steps - 2019 CFP Process

- **May 7** - Draft CFP goes to Administrative Services
- **July** - City Council Finance Committee - Preliminary CFP
- **August** - Planning Commission public hearing
- **October** - Council discussion and public hearing
- **December** - Council adoption

Questions and Discussion

