

Sewer Rate Overview and 2021 Schedule And Portfolio and Asset Management Wastewater Treatment Division

Presented to the Regional Water Quality Committee March 3, 2021



Rate Schedule

February – WTD project managers update cashflow projections for capital projects to inform final rate proposal; previous year's financials are closed

February 4 – MWPAAC Rates and Finance Subcommittee meeting

February 24 – MWPAAC General meeting

March 4 – MWPAAC Rates and Finance Subcommittee meeting

March 8 – Executive briefing, direction provided



Rate Schedule

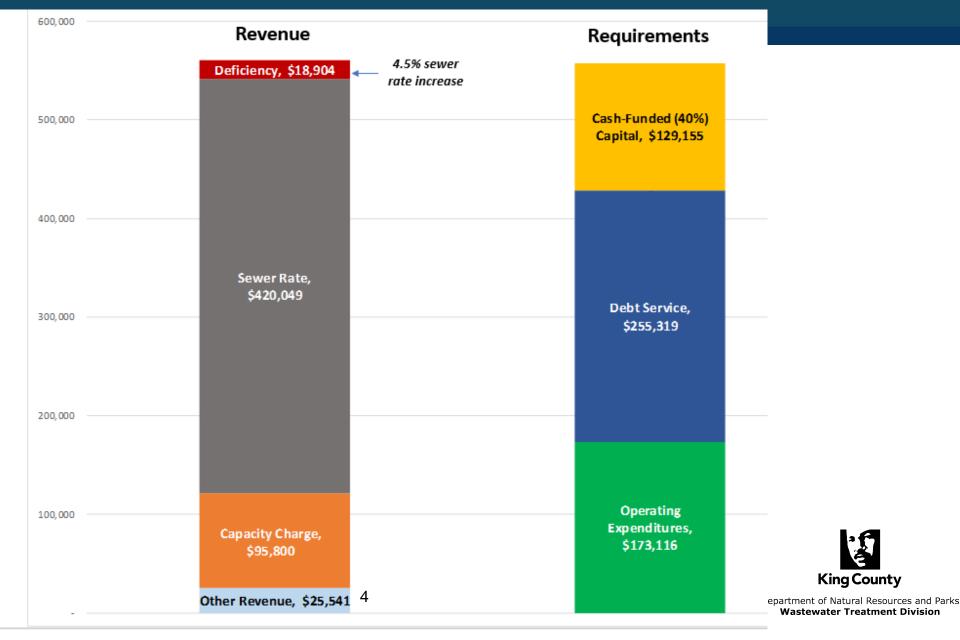
March 24 – MWPAAC vote on recommendation letter to Executive regarding the proposed rate

- **April 1** MWPAAC Rates and Finance Subcommittee
- April 15 Executive's 2022 Sewer Rate and Capacity Charge Proposal transmitted to King County Council
- April 28 MWPAAC General meeting and possible consideration of a recommendation letter to King County Council regarding the proposed rate
- May 5 King County Council Regional Water Quality Committee briefing

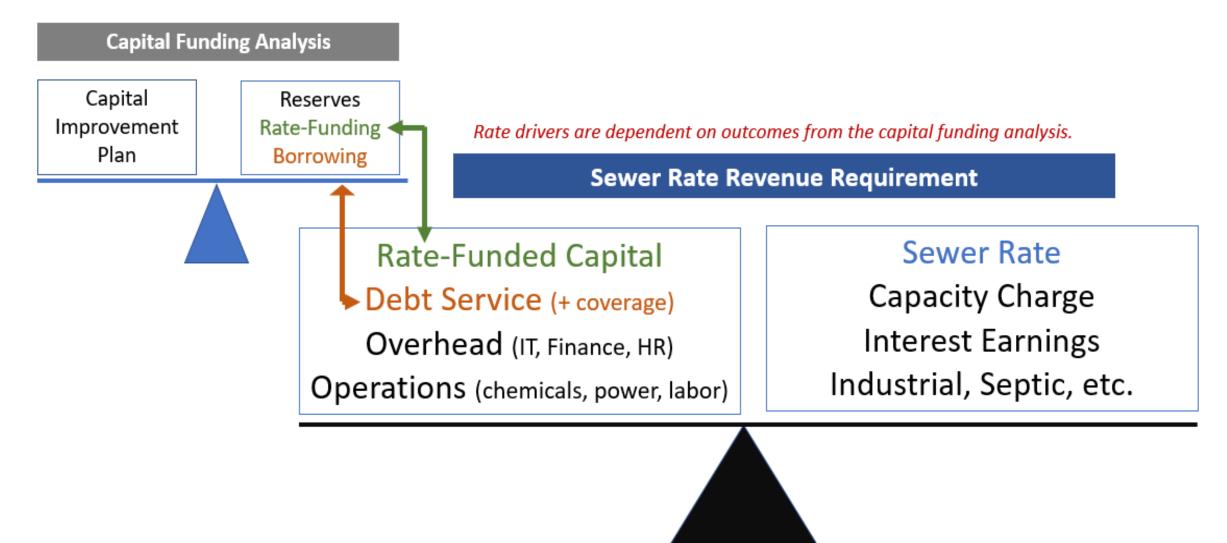
May – June – King County Council Budget and Fiscal Management Committee briefings and Council action The regional sewer contract stipulates that King County shall determine the rate *prior* to July 1st of each year

Revenue Requirement Overview

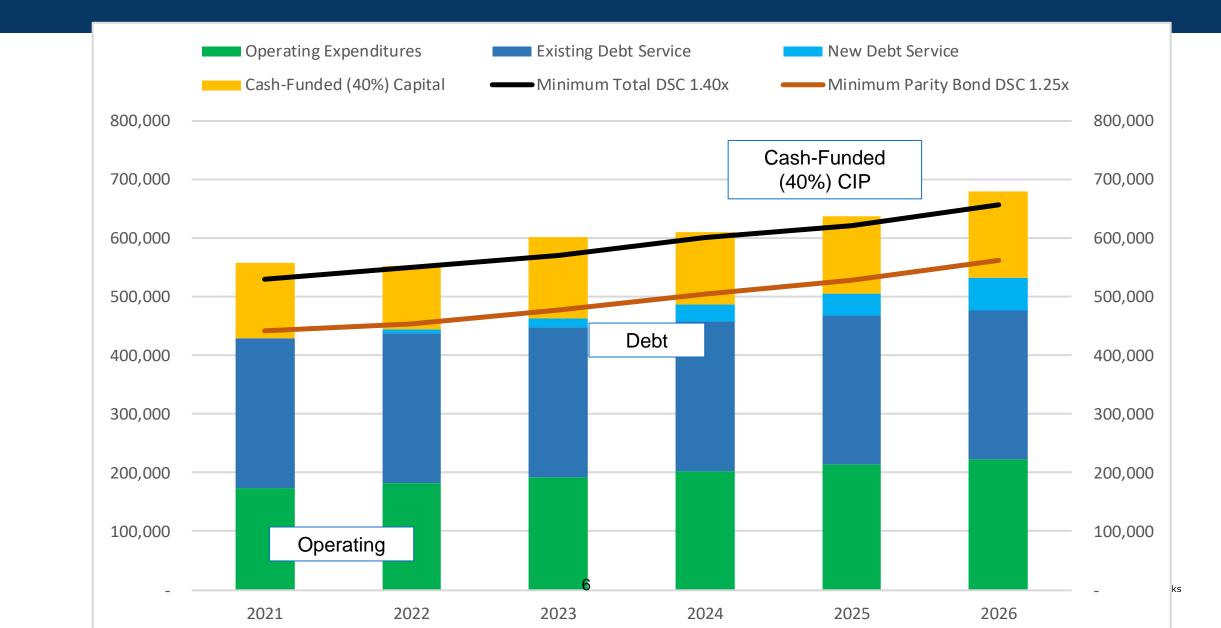
2021 Revenue Requirement Components (\$ in 1,000s)



Revenue Requirement Overview



Adopted Rate Plan – 2021 Rate Setting in 2020



Questions?

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Project Portfolio Management

In 2017, WTD introduced Project Portfolio:

- Allocate resources to the right projects at the right time
- Objective process to prioritize / balance / sequence refurbishment, repair and replacement of equipment
- Ensure transparent decision making
- Tools to document and communicate the "why" behind project prioritization



Project Portfolio Management

- Created inventory (or list) of all known project requests
- Created categories of similar type projects
- Prioritized projects based on each category's unique criteria (routinely reassessed)
- Aligned categories with WTD strategy
 - Ensures strategies are funded and implemented















Asset Management

Regulatory

Resources & Energy Operational Enhancements Capacity Improvement

Resiliency

WTD Capital Categories

10

Conveyance System

Approximately 400 miles of sewer pipelines

25 regulator stations

48 pump stations

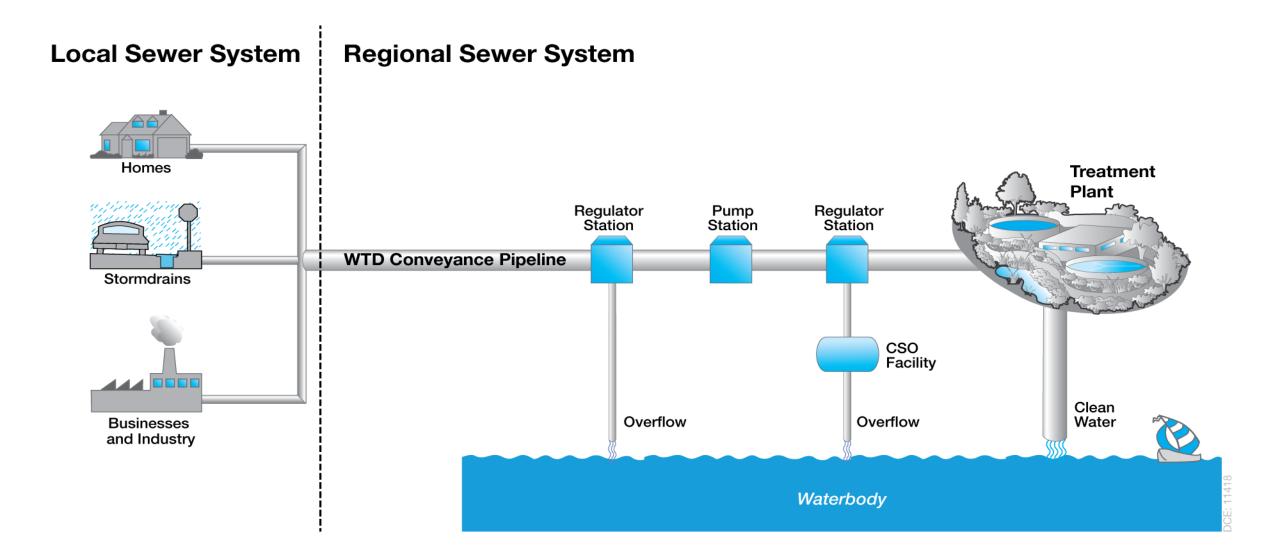


Conveyance System History – Major Expansions

1900s	 Seattle combined system construction (North Trunk still in use)
1960s	 Metro regional system construction
1980s	Renton Effluent Transfer pipeline
1990s	 RWSP adopted, CSI program started
2000s	CSO Facilities



Conveyance System Facilities





- North Mercer Island and Enatai Interceptors Upgrade (Mercer Island, Bellevue)
- Pump station and conveyance system capacity upgrade
- New force mains, gravity pipe, and siphons as well as gravity pipe rehabilitation



Variable Frequency Drive Replacement (Systemwide)

- Ongoing program
- Proactively replace variable frequency drives (VFDs) at the end of their life or that become obsolete
- 2021 Planned Replacements:
 - Duwamish PS (Seattle)
 - 63rd Ave PS (Seattle)
 - West Seattle PS (Seattle)
 - Wilburton PS (Bellevue)
 - South Mercer PS (Mercer Island)
 - Kenmore PS (Kenmore)





Medina PS

- Replace Motor Control Center
- Replace Variable Frequency Drives
- Install a permanent standby generator







Lakeland Hills Generator (Auburn)

- Install a standby generator and fuel tank
- Pump station does not currently have a standby power system
- Currently served by a mobile generator



Alki Permanent Standby Generator (Seattle)

- Replace existing generator at Alki Wet Weather Treatment Station (WWTS)
- Backup power to both Alki WWTS and 63rd Avenue PS
- Pump station does not have a standby power system
 - Currently served by a mobile generator





Upcoming Pipeline Replacements

Coal Creek Trunk (Bellevue)

Capacity expansion

Realignment out of a creek bed





Upcoming Pipeline Replacements

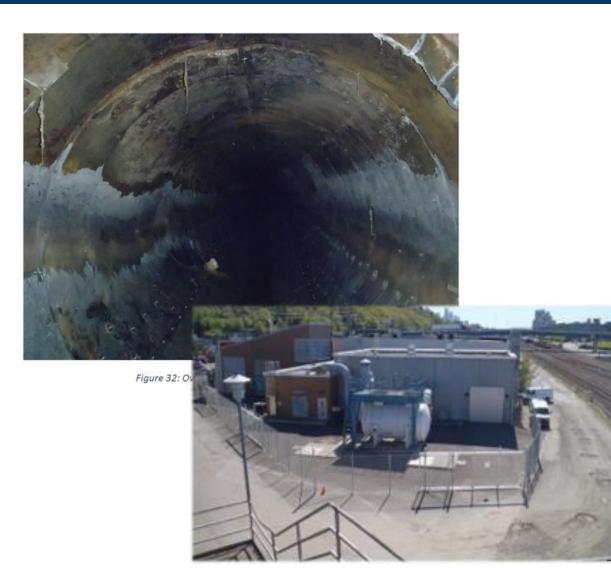


Lake Hills Trunk and Northwest Lake Sammamish Interceptor Upgrade (Redmond and Unincorporated King County)

- Replace, refurbish, or parallel
 4.5 miles of pipeline
- Current pipes are under capacity and in poor condition



Upcoming Pipeline Replacements / Rehabilitation



Interbay Force Main & Odor Control (Seattle)

- Dual force mains, discharge structure, and gravity pipe are corroded
- Replace the Interbay Pump Station dual force mains
- Rehabilitate the force main discharge structure (FMDS)
- Rehabilitate downstream 96" gravity pipe
- Construct an odor control facility at the FMDS
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 Department of Notes



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Upcoming Pipeline Rehabilitation

Lake Hills Interceptor Rehabilitation Phase II (Bellevue)

- Rehabilitate 7,776 linear feet of reinforced concrete Lake Hills Interceptor pipe
- Pipeline is deteriorating due to hydrogen sulfide exposure



Questions?

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