



Memorandum of Agreement City of Renton & King County

MWPAAC JOINT SUBCOMMITTEE
AUGUST 1, 2024

RECLAIMED WATER
FEASIBILITY STUDY

Reclaimed Water

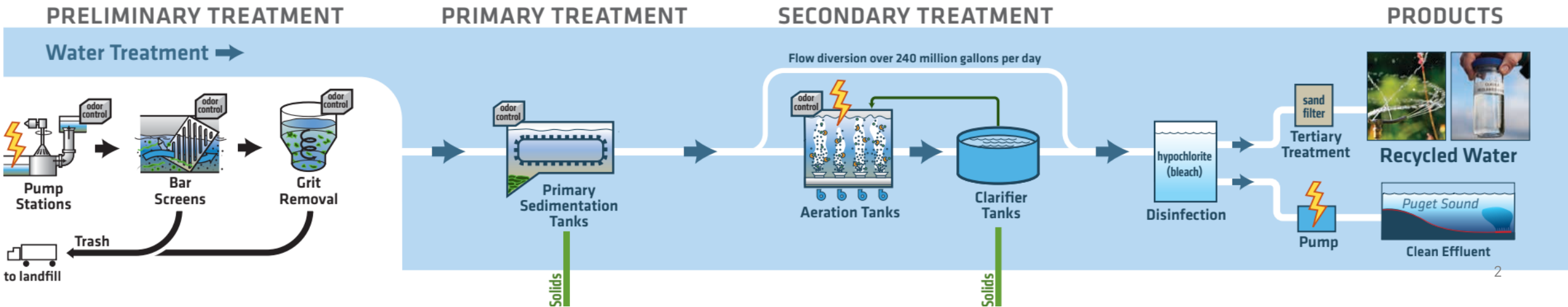
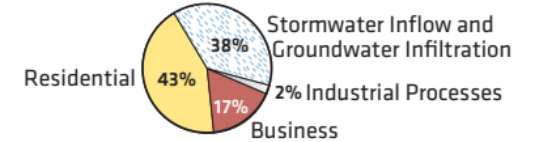
- King County South Treatment Plant produces Class A Reclaimed Water.
- Class A Reclaimed Water is approved for irrigation, industrial use (cooling), agriculture, toilet/urinal flushing and water impoundments.
- 1.3 MGD Filter Feed Limit
- 2023 Production:
 - 16,787 gal/day annual average
 - 210,098 gal/day average April-September



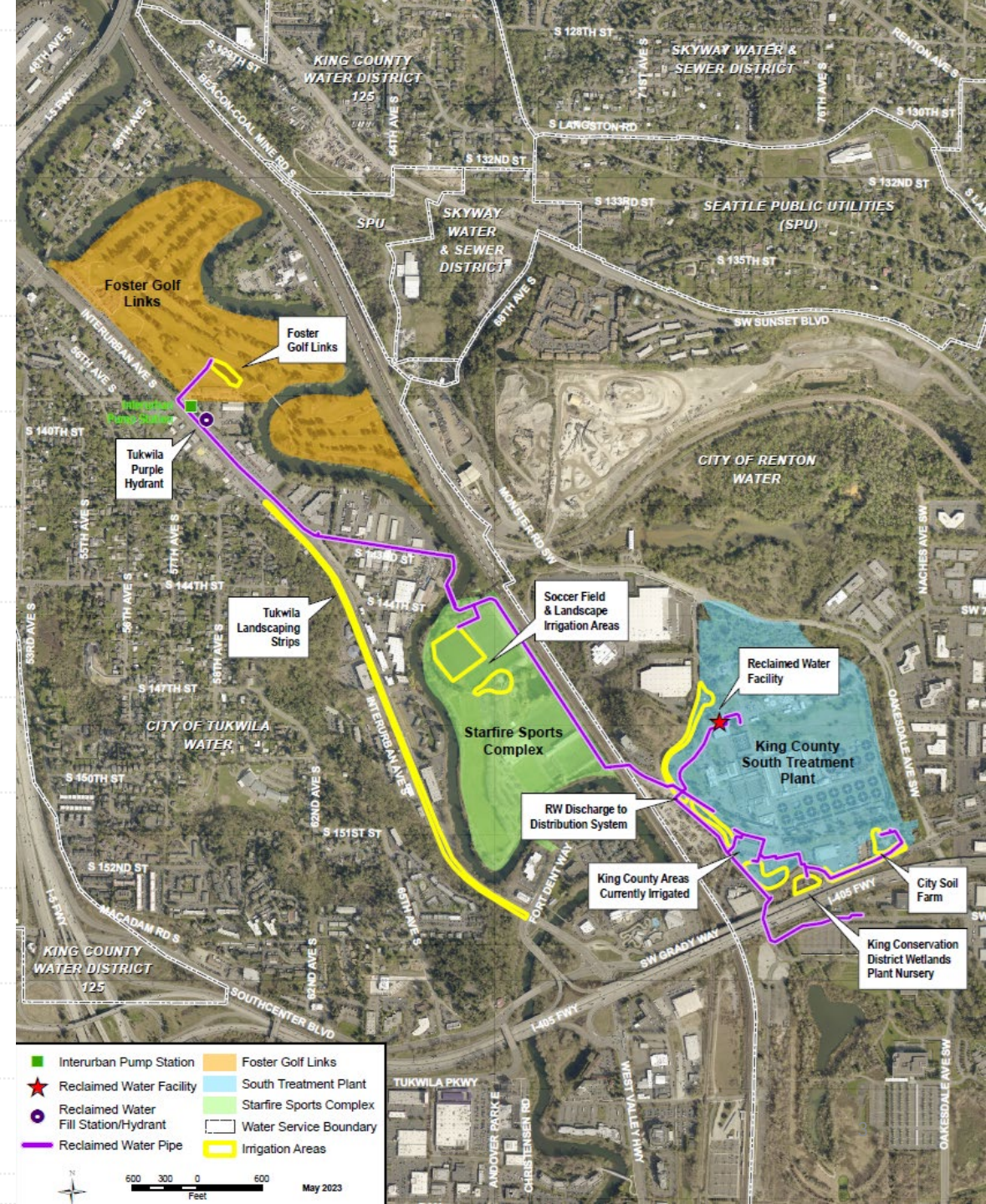
South Plant Treatment Process

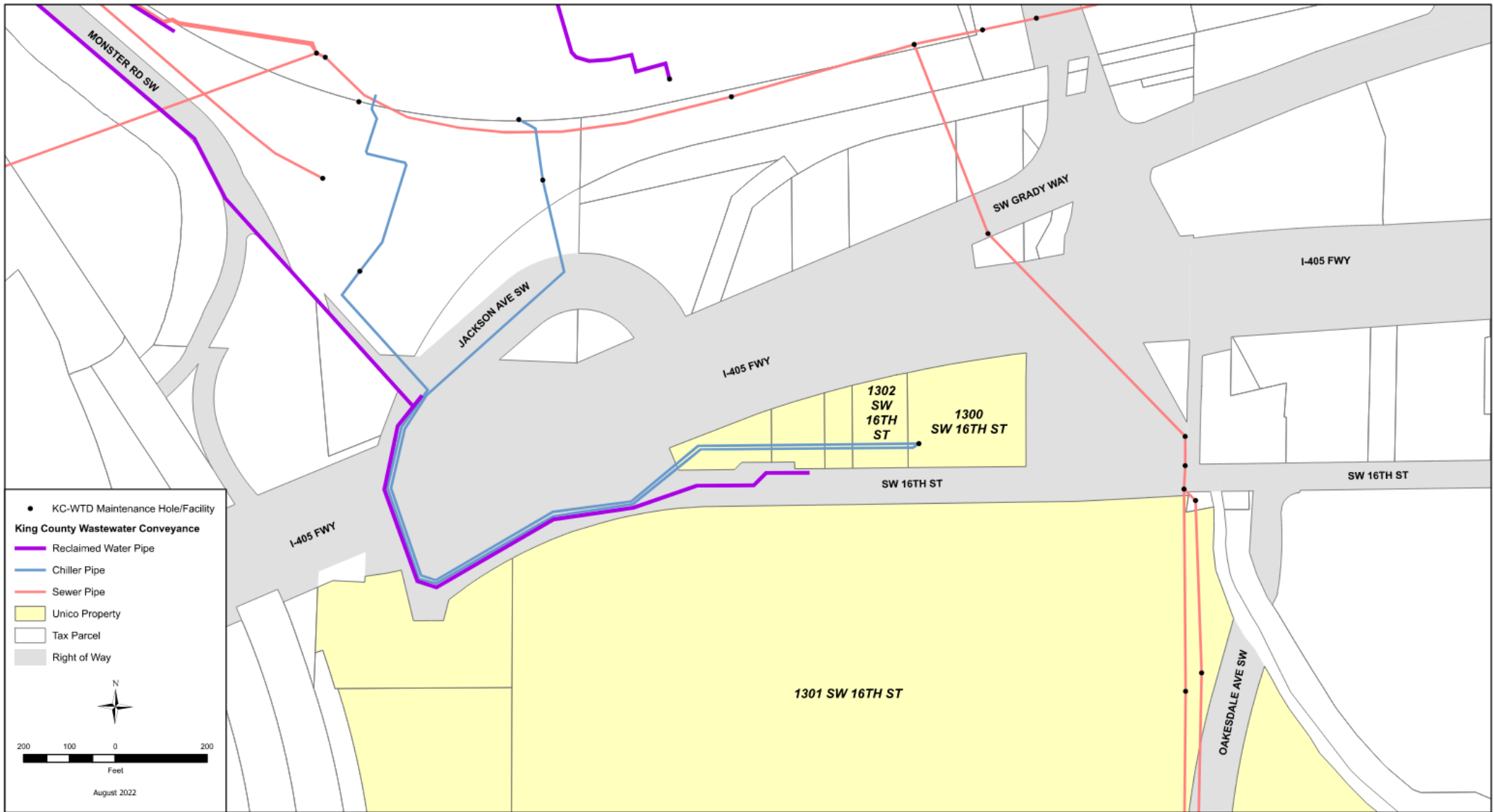
WHAT'S COMES INTO SOUTH PLANT?

Typical Flows by Source During Winter Months



King County South Treatment Plant and Reclaimed Water Distribution System





Background

- The City of Renton provides potable water to 18,553 retail customers (service connections).
- Average Day Demand (2019): 7.7 MGD
- Historical Maximum Day Demand (2019): 13.9 MGD
- Projected Maximum Day Demand (2039): 17.7 MGD
- City's Certificated Water Rights (in-production): 17.9 MGD
- By 2039, it is estimated that the City will need to purchase additional potable water from Seattle Public Utilities (SPU).
- The City, in cooperation with King County, intend to fund a Reclaimed Water Feasibility Study that will inform on the viability of using Reclaimed Water for non-potable uses.



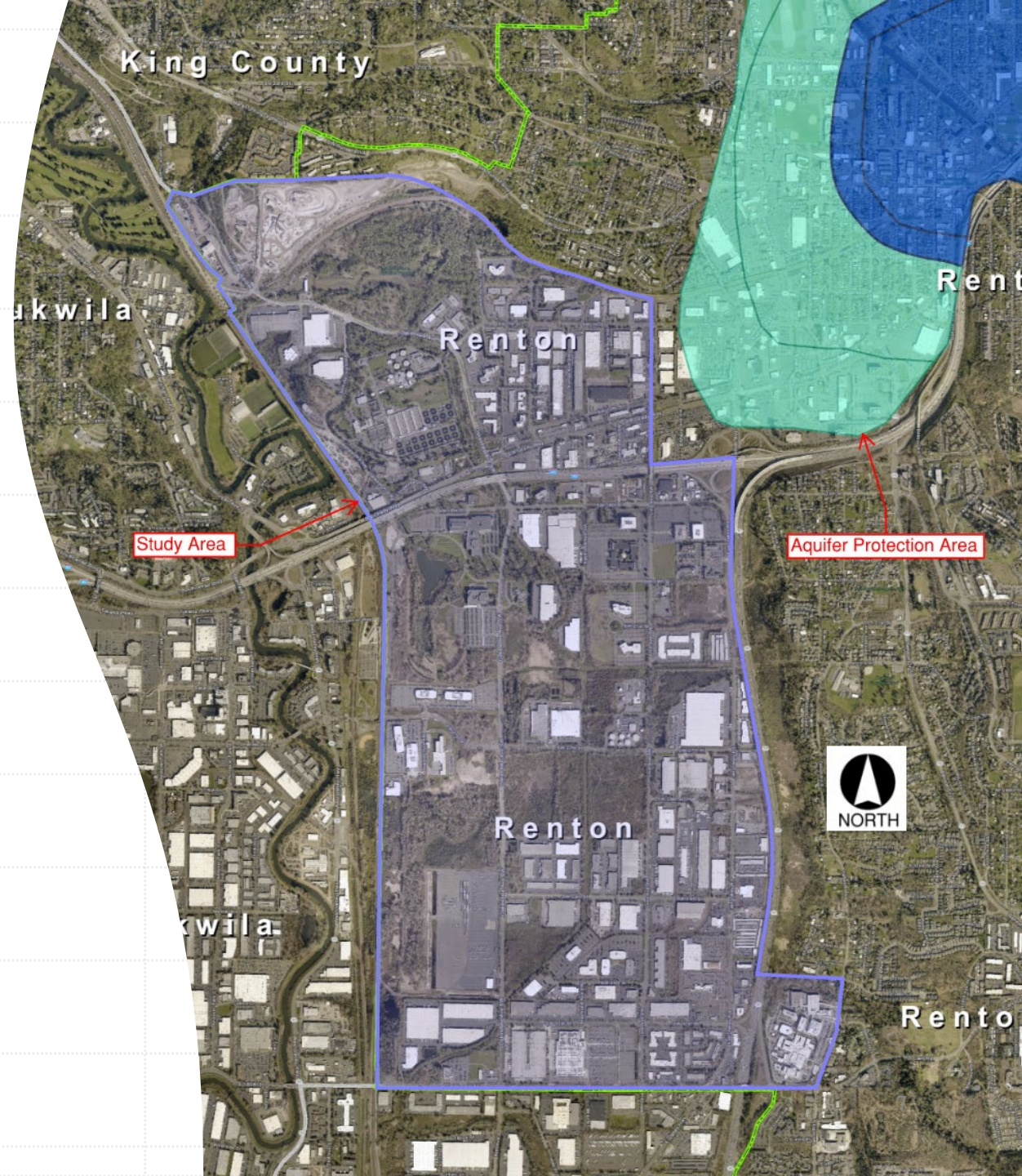
Reclaimed Water Feasibility Study

- King County has agreed to reimburse the City for 50% of the actual consultant cost for the Feasibility Study, not to exceed a total of \$100,000.
- The City will contract with a consultant team for the study and the City and County will manage the project together.
- The City will use the MSRC Consultant Roster to select qualified firms with experience in Reclaimed Water Feasibility Studies.



Study Area

- Outside of Aquifer Protection Areas
- Located in the valley, topography is generally flat.
- Existing industrial and commercial uses
- Large undeveloped parcels and landscaping areas.



Study Scope

- Reclaimed Water Quality, Uses, Benefits and Demand Analysis
 - Consultant will need to do public outreach to ensure that there is a market for reclaimed water in Renton.
- Development of Reclaimed Water Distribution Alternatives
 - Show infrastructure requirements
 - Design Standards
 - Roles and Responsibilities
- Costs, Funding Sources, and Feasibility





Anticipated Schedule

- Renton Staff Review of Agreement and Parties Finalize Language: March–May, 2024
- Present Agreement for Review and Approval to Renton City Council: June–July 2024
- Consultant Selection Complete: August–September 2024
- Council Approval of Consultant Contract: October 2024
- Feasibility Study Report Complete: November 2025

Sustainability

- Reclaimed water is a valuable, drought-proof, untapped resource.
- Reclaimed water use reduces our reliance on Puget Sound discharge while using the water beneficially.
- By using reclaimed water for non-potable uses, the City will preserve its potable water supply and extend capacity for future demands.





Questions?

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