

# Salmon Creek Wastewater Treatment Plant

## Phase 5 Improvements

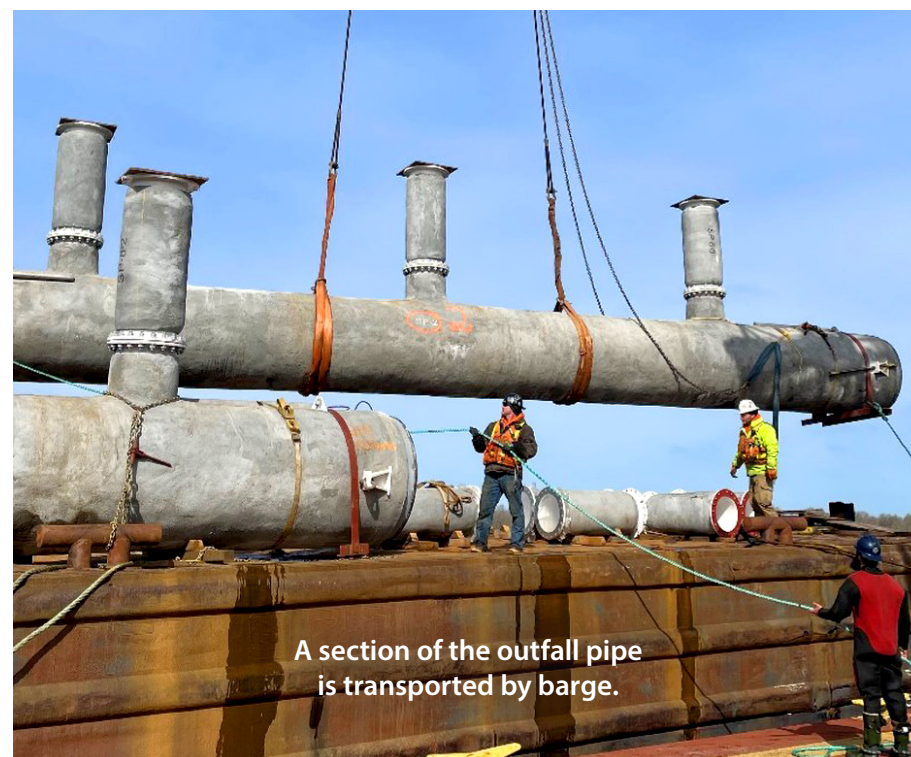
These projects were completed between 2019 and 2025 and represent a total investment of \$71.6 million. These improvements increased the plant's capacity by 17%, supporting the region's growth for the next 8–10 years. The Alliance is grateful to our partners and staff for making these improvements possible.



A clean water community partnership, laying the foundation for a vibrant economy and healthy environment.



## Pipeline and Outfall Construction





# Salmon Creek Treatment Plant Phase 5 Improvements

## 1. Primary Clarifier Covers

New aluminum covers were installed on the primary clarifiers to significantly reduce odors.



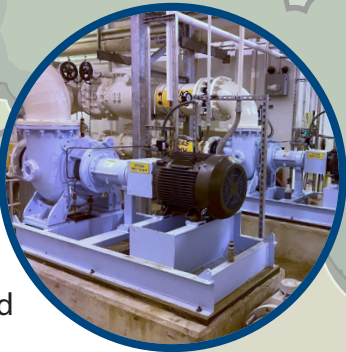
## 2. Biotrickling Filters

This new filter allows odorous gases from wastewater to be pumped through a silo-like structure that contains biofilm, which harbors bacteria that break down odor-causing compounds. The process involves a continuous trickle of fresh water over the biofilm, which supports the diversity of bacteria.



## 3. New Pumps

Two new return-activated sludge (RAS) pumps were added to support the new secondary clarifier. Aging pumps were replaced to ensure continued efficient operation.



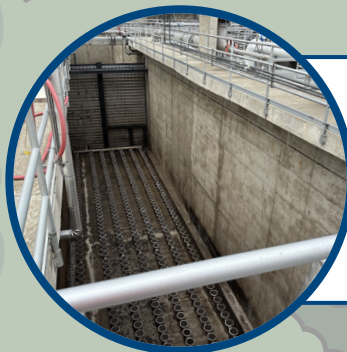
## 4. Larger Secondary Clarifier

A new 120-foot diameter secondary clarifier was built to support the new aeration basin, providing more capacity for secondary treatment.



## 5. New Aeration Basin

A new aeration basin was added to provide more capacity for adding oxygen to bacteria for treating and stabilizing the wastewater. The new basin was built on the site of an existing secondary clarifier, which was demolished.



## 6. New Blower

A fourth blower, a machine that provides air to the aeration basin, was added in the existing blower building. A new oil storage building was constructed to safely house flammable material (next to blower building).



## 7. Carbon Adsorbers

Two new carbon adsorbers were built to reduce odors from the solids treatment process. Odorous air moves through a bed of granular carbon and sticks to the carbon instead of escaping.



## 8. New Pipeline and Outfall Diffuser

(see back)

