

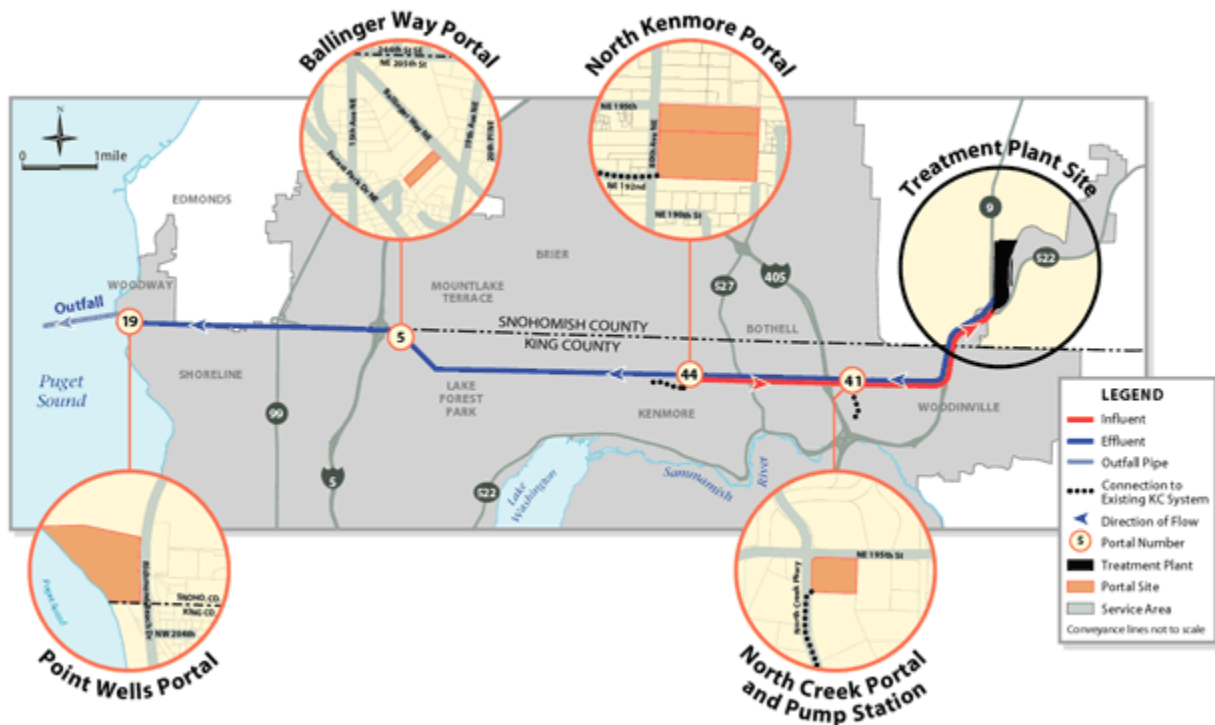
Brightwater conveyance system and marine outfall

Conveyance system

Conveyance refers to the tunnels, pipes, and other facilities that carry wastewater to and from the treatment plant. The Brightwater conveyance system includes 13 miles of pipeline built in underground tunnels 40 to 440 feet below the surface, shallower connector pipes, and an influent pump station to send wastewater to the plant.

Some portions of the tunnel have up to four pipes to bring treated and untreated wastewater to and from the treatment plant; other tunnel sections contain only a single pipeline which carries highly treated effluent to Puget Sound.

In addition to the tunnels and pipes, the system includes other facilities: pumps, flow and odor control facilities, and electrical and monitoring equipment. These are located at one of the four portals sites used for construction, which have become permanent facilities. There is a large influent pump station in Bothell and smaller above-ground structures in Kenmore and Shoreline. There is also a small belowground sampling facility at Point Wells.



Brightwater marine outfall

Brightwater's mile-long, 600-foot-deep outfall extends off of Point Wells. The outfall consists of twin 5-foot-diameter pipes with a diffuser at the end where highly treated wastewater from the treatment plant is discharged into Puget Sound.

