



King County

Department of Natural Resources and Parks

Wastewater Treatment Division

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Seattle, WA 98104-3855

Brightwater Reclaimed Water System

At the January 19, 2011, meeting of the Metropolitan Water Pollution Abatement Advisory Committee's (MWPAAC) Engineering and Planning Subcommittee, a participant requested information on the Brightwater Reclaimed Water System, including the infrastructure that makes up the project, approval of the project, and financing of the project. Because similar questions have been asked and responded to at previous Engineering and Planning Subcommittee meetings, the Wastewater Treatment Division prepared this document for MWPAAC's reference. In addition, status reports on the Brightwater Reclaimed Water System are also provided in RWSP annual reports, and a description of the project is available on King County's website. (Web links for this and other related information is provided at end of handout.)

The following information is included in this document:

- A description of the Brightwater Reclaimed Water System project, including the infrastructure associated with the project and a map that shows the locations of the project
- Information on when the project was approved and how the project is financed
- Links to Web sites that provide additional information on the Brightwater Reclaimed Water System

Project Description

The Brightwater Reclaimed Water System includes construction of two reclaimed water pipelines—the South Segment and the West Segment (see Figure 1). The South Segment runs from the Brightwater Treatment Plant through the Sammamish Valley and consists of two portions of new pipe and a portion of a converted existing force main. The West Segment is a dedicated reclaimed water pipeline that is being installed inside the Brightwater effluent tunnels that go from the Brightwater Treatment Plant to the North Kenmore Portal. The West Segment is designed to allow distribution from the access portals along the effluent tunnel route.

Initially, only the South Segment will be operational. It will be able to transport up to 7 million gallons per day (mgd) of reclaimed water from the Brightwater Treatment Plant south through the Sammamish Valley. Additional infrastructure will be needed to provide access to reclaimed water from the West Segment. No plans are in place to make these infrastructure investments.

Construction of the Brightwater Reclaimed Water System includes:

- Installation of a reclaimed water pipe in the Brightwater conveyance tunnel, which goes from the treatment plant to the North Kenmore Portal. This is being built as part of the conveyance tunneling and piping and will provide for future reclaimed water distribution as needed.

- Development of a reclaimed water pipeline that goes through the Sammamish Valley, including:
 - Installation of approximately 2.5 miles of new pipe
 - Conversion of approximately 4.5 miles of existing pipeline for reclaimed water use
 - Modifications to the existing conveyance system including work at the North Creek, Hollywood, and York pump stations.

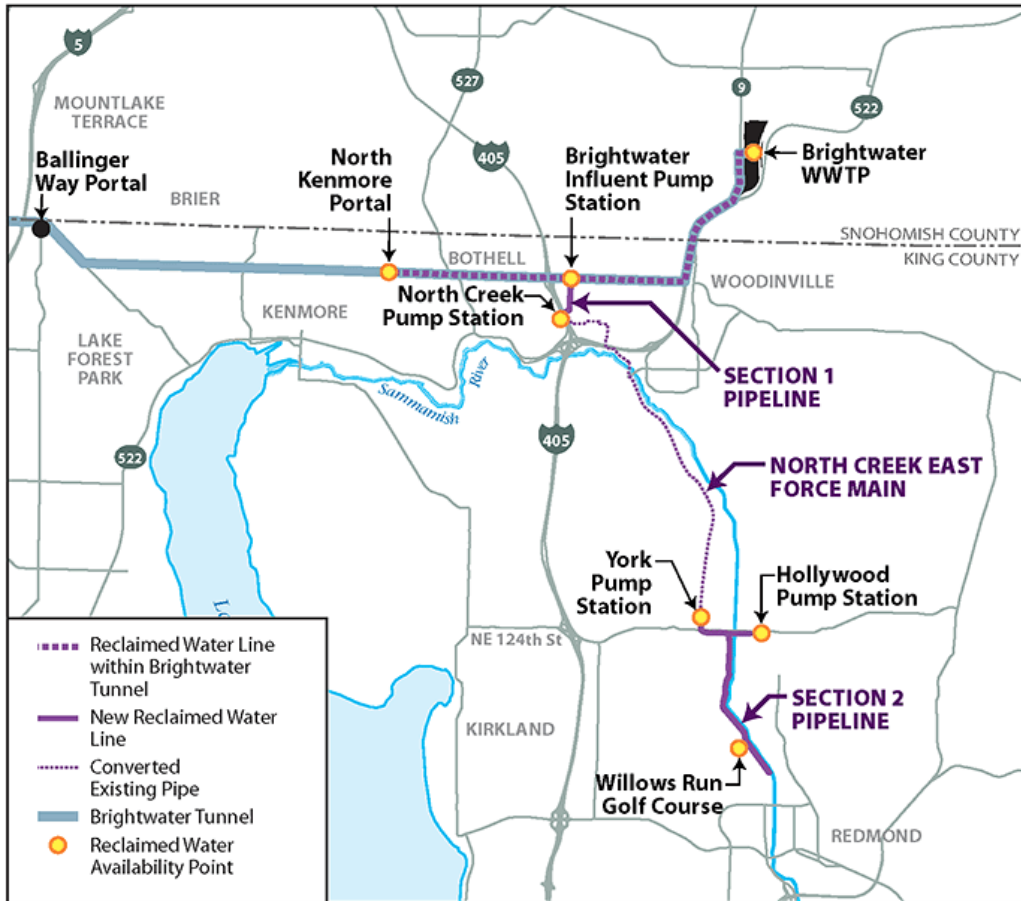


Figure 1. Brightwater Reclaimed Water System

Project Approval and Financing

The Brightwater Reclaimed Water System project was approved as part of the Wastewater Treatment Division’s capital improvement plan in the 2006 King County Budget (Ordinance 15333). The costs associated with the financing of the project are shared proportionally between new and existing customers. As such, rate revenues from these two groups will pay for the costs associated with the project.

Web Links

More information on the Brightwater Reclaimed Water System can be found in the Web links listed below:

General information on the Brightwater Reclaimed Water System:

<http://www.kingcounty.gov/environment/wastewater/ReclaimedWater/ExistingSystem/Brightwater.aspx>

Construction activities associated with the Brightwater Reclaimed Water System:

<http://www.kingcounty.gov/environment/wtd/Construction/North/Brightwater/Activities/Construction/Reclaimed-Water.aspx>

Annual status reports on the Brightwater Reclaimed Water System project:

<http://www.kingcounty.gov/environment/wtd/Construction/planning/rwsp/Library.aspx>

A status report on construction of the Brightwater Reclaimed Water System is provided in RWSP annual reports and comprehensive reviews.

Information on the Brightwater Reclaimed Water System is provided in the June 1, 2009, *Report on the Status of the Reclaimed Water Work Program*:

http://www.kingcounty.gov/environment/wastewater/MWPAAC/Committees/EP/~media/environment/wastewater/MWPAAC/docs/2009/0617EP/AttachA_RWProviso_June09.ashx

Information on the Brightwater Reclaimed Water System budget is provided in the February 10, 2010, handout regarding King County reclaimed water budget information:

http://your.kingcounty.gov/dnrp/library/wastewater/rw/CompPlan/100210_RWBudget.pdf