



King County

Department of Natural Resources and Parks
Wastewater Treatment Division

West Point Treatment Plant SEWERNEWS

www.kingcounty.gov/wtd

2012 UPDATE

What's happening at the West Point Treatment Plant?

Various projects are underway at the West Point Treatment Plant that will increase operating efficiency, improve process safety and expand the production and use of renewable energy.

Office Annex Construction

Construction is nearing completion at the Treatment Plant to build a permanent, modular office annex that will replace temporary construction trailers. The new office annex incorporates 'green' building materials and energy efficient design.

Screenings Improvement Project

Design is being finalized on a project to upgrade and replace the trash screening equipment used in the preliminary stages of the wastewater treatment process.

This project will:

- Meet state regulations
- Protect process equipment
- Improve the quality of biosolids

Construction is scheduled for 2013-2014.

Waste-to-Energy Project

WTD is completing a new cogeneration system that uses digester gas to generate electricity to sell to Seattle City Light. The generators produce heat as a byproduct, and this heat is used in the plant to support the treatment processes. The new cogeneration system will produce an equivalent amount of electricity needed to power nearly 2,300 homes.

Plant Tours

Plant tours are currently not available at the West Point Treatment Plant due to construction. Tours of the Brightwater Treatment Plant and South Treatment Plant are available; for more information visit www.kingcounty.gov/environment/wtd/Education/PlantTours.

For additional information about the West Point Treatment Plant, please visit www.kingcounty.gov/environment/wtd/About/System/West

For odor concerns or complaints, call West Point Treatment Plant Odor Control Hotline **206-263-3840**.

This is not
a trash can



Protecting Puget Sound in the West Point Service Area

King County’s Wastewater Treatment Division (WTD) is continually working to maintain, repair, and upgrade our facilities. Here are some of the facilities that work to keep Puget Sound clean and some of the projects that are in design or in construction in your region.

West Point Treatment Plant

- 32 acre facility built in 1964
- Operates 24/7, 365 days a year
- Treatment process produces valuable byproducts that can be reused including biosolids, and reclaimed water
- Award-winning facility -recognized by the National Association of Clean Water Agencies for excellence in wastewater treatment



The West Point Treatment Plant treats 133 million gallons of wastewater per day (enough to fill more than 150 Olympic-size swimming pools!)

Wet Weather Facilities

- Include Carkeek, Elliott West, and Alki Wet Weather Facilities
- During dry weather, these facilities convey sewage to West Point Treatment Plant for treatment
- During large storms, combined stormwater and wastewater that exceeds capacity is treated onsite and released into Puget Sound

Stormwater and Wastewater Control

WTD has projects underway to meet current Combined Sewer Overflow (CSO) regulations and reduce stormwater impacts:



South Magnolia CSO Control Project

Construction begins 2013 - a new conveyance pipeline and storage tank to store peak combined sewer flows



Barton CSO Control Project

Construction begins 2013 - bioretention swales to reduce the amount of stormwater entering the combined sewer system



North Beach CSO Control Project

Construction begins 2013 - underground storage pipeline to store combined wastewater and stormwater flows



Murray CSO Control Project

Construction begins 2013 – underground storage tank to limit discharges of untreated wastewater and stormwater to Puget Sound



Old Pipes, New Pipes

Some of WTD’s pipes have been used for 100 years. Several projects are underway to assess and replace old pipes:



Fremont Siphon Replacement Project

Construction begins 2014 - new underground siphon pipes beneath the Ship Canal to replace the existing Fremont Siphon built in the early 1900s



North Beach Force Main Maintenance

Under evaluation summer 2012 - this force main (pipeline under pressure) was installed in 1963



Ballard Siphon Replacement Project

In construction through 2013 - new underground pipe beneath the Ship Canal to replace a pipe in use since 1935 and accommodate growth in north Seattle

The Ballard Siphon Replacement Project used state-of-the-art excavation technology for the first time in North America to build a shaft for launching the tunnel boring machine. The 2,000-foot-long tunnel will be built in fall 2012.



Planning for the Future

WTD is continually upgrading facilities to protect water quality and provide wastewater treatment. Several projects have started to add capacity for future growth:



Interbay Pump Station Upgrade

In construction through early 2015 - new generator building and pump station upgrades to provide emergency power, odor control, and increase overall pump station capacity



Barton Pump Station Upgrade

Construction begins summer 2012 - upgrade 54 year old pump station to accommodate growth in West Seattle and ensure safe and reliable operation

For more information on these and other WTD projects, visit www.kingcounty.gov/wtd



**Department of
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Wastewater Treatment Division
King Street Center
KSC-NR-0503, 201 S. Jackson St.
Seattle, WA 98104-3855

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What can you do to keep Puget Sound Clean?



Find out how old your pipes are

Side sewers are often the age of your house and maintenance is a property owners' responsibility. Inspect your side sewer to prevent problems that can cause clogs and overflows! Learn more at: www.kingcounty.gov/environment/wtd/Education/ThingsYouCanDo/YourSideSewer



Learn what materials you shouldn't put in the toilet

Disposable wipes are clogging our sewer lines; damaging pumps and other equipment and can cause raw sewage backups into homes and businesses. Pumps that get plugged with this debris can result in overflows into local waterways. Put used cleaning wipes, cloths and pads in the trash, NOT the toilet!

