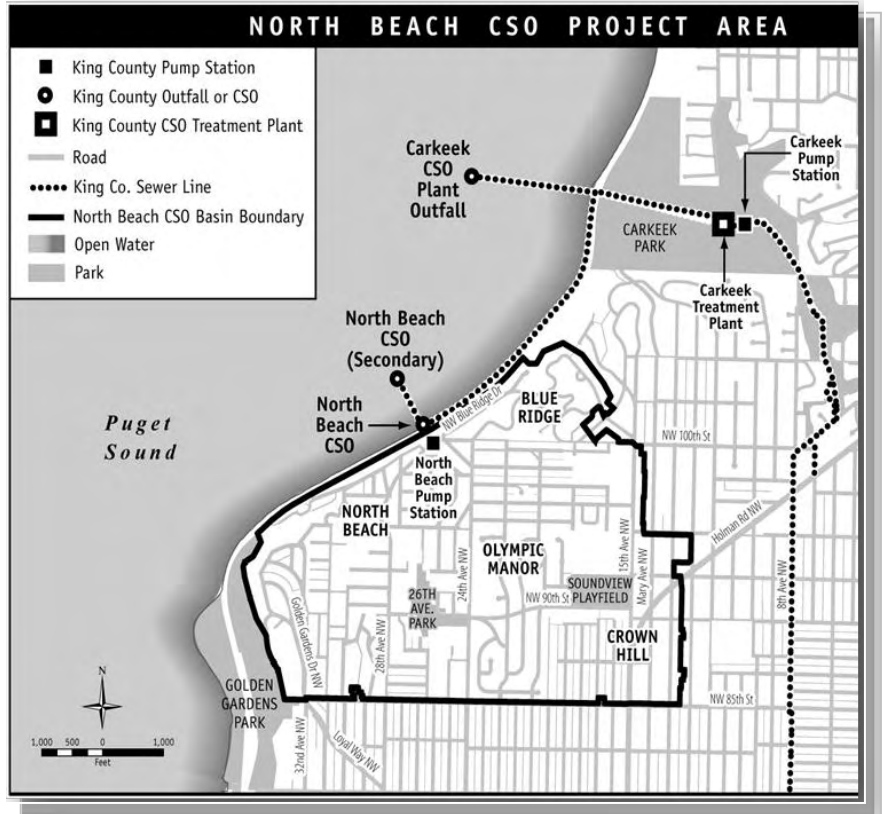


Protecting Puget Sound with CSO control at North Beach

To limit combined sewer overflows (CSOs), King County is designing and building an underground storage pipeline in the right-of-way of Northwest Blue Ridge Drive and Triton Drive Northwest. This facility will store peak flows during large storms when the North Beach Pump Station reaches maximum capacity, reducing discharges of untreated stormwater and wastewater to Puget Sound near a recreational beach. After storms have passed and system capacity is available, an underground pump system will transfer stored flows to the North Beach Pump Station for conveyance to King County’s Carkeek Pump Station and Wet Weather Treatment Facility.



Why does King County need to do this project?

In 2008, King County reported that the North Beach CSO facility has ten overflows per year on average, discharging a total of 2.2 million gallons of untreated stormwater and wastewater into Puget Sound off North Beach. King County will build the underground storage facility at North Beach to meet current regulations set by the Washington State Department of Ecology, requiring no more than one untreated discharge per location per year on a long-term average.



King County's North Beach Pump Station



Project Elements

- An underground diversion structure located on King County property
- A pipeline connecting the diversion structure to the storage facility to divert flows for storage
- Twin underground storage pipelines approximately 230 feet long and 11 feet inside diameter, located in the right-of-way
- Two underground structures at each end of the pipeline, one for pump equipment and one for flushing equipment
- Access hatches for operations and maintenance of the underground structures and pipeline in the right-of-way
- A pipeline connecting the storage facility to the pump station to return flows to the conveyance system
- An ancillary equipment facility including odor control and electrical on King County’s property
- Restoration of the right-of-way in accordance with permit conditions
- Restoration of landscaping on King County’s property

Did you know?

CSOs can occur at any time of the year when stormwater fills the sewer system beyond capacity. **For real-time notification of CSOs visit:** www.kingcounty.gov/environment/wastewater/CSOstatus

Combined Sewer Overflows (CSO) occur in older parts of King County’s wastewater system that carry both wastewater and stormwater to the treatment plant. When heavy rains fill the pipes, excess stormwater and sewage flow directly into local waterbodies. Historically, CSOs were designed into the system to avoid damage to facilities and sewer backups into homes and businesses and onto streets during storms.

Today, CSOs are a concern because untreated wastewater and stormwater may be discharged to Puget Sound during large storms posing risks to public health and the environment.

Project timeline

<i>Activities</i>	<i>Dates</i>
Community meeting	Jan 25, 2012
Community design workshop	April 2012
On site community meeting	Summer 2012
Final design submitted to Ecology	Dec 31, 2012
Community meeting before construction begins	Spring 2013
Construction procurement process	Early 2013
Construction (18-24 months)	2013 - 2015

For more information:

North Beach CSO Control Project:
www.kingcounty.gov/environment/wtd/Construction/Seattle/NBeachCSOStorage

King County’s CSO Control Program:
www.kingcounty.gov/environment/wastewater/CSO

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