



Project Element: Replacing the City of Seattle's CSO outfall

Spring 2012

As part of the Fremont Siphon Replacement Project, King County is working closely with the City of Seattle to replace and reconfigure one of the City's Combined Sewer Overflow (CSO) outfalls that discharges into the Lake Washington Ship Canal. CSOs occur in older parts of wastewater systems that carry both wastewater and stormwater. When heavy rains fill the pipes beyond system capacity, 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 large storms.

Why does the CSO outfall need to be replaced and reconfigured?

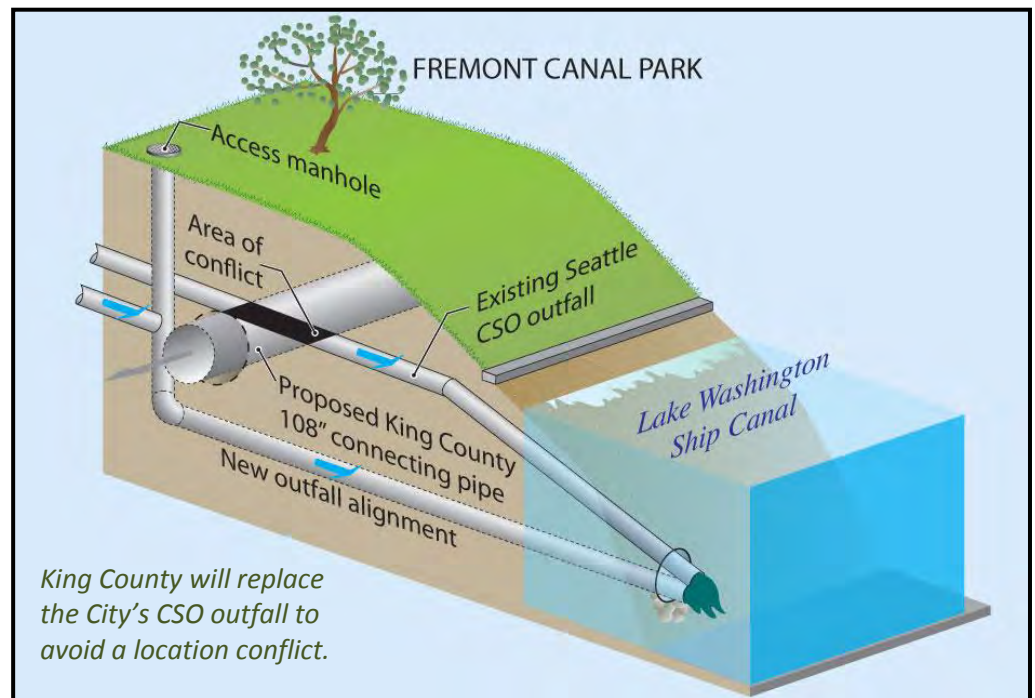
The City's existing CSO outfall extends under the Fremont Canal Park towards the Ship Canal and is in direct conflict with the proposed location of a 108-inch pipeline that will convey wastewater to the new Fremont Siphon.

Because the possible locations for the siphon are limited due to hydraulic constraints and existing pipeline locations, the outfall alignment will be reconfigured. King County will install a new pipe connecting to the existing outfall, maintaining the current discharge point and capacity of the existing outfall. The City's outfall will function continuously during construction and tie-in of the new line.

The outfall installation will require excavation in Fremont Canal Park and work in the Ship Canal, outside of the navigational channel.

For information on the City of Seattle's CSO system and CSO reduction program, visit:

www.seattle.gov/CSO



Schematic representation

For more information

Visit the project Web page:

www.kingcounty.gov/environment/wtd/Construction/Seattle/FremontSiphon.aspx

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