



Barton Combined Sewer Overflow (CSO) Control Project

The Barton Combined Sewer Overflow (CSO) Control project team has been conducting ongoing field investigations since early September. Thank you to all the neighbors who have accommodated field work activities on their block and taken the time to stay informed and engaged in this important project!

What have we been up to?

- Continuing outreach with neighbors about the project and neighborhood characteristics
- Walking the project area to observe water flow and street conditions, and performing surveys including location of utilities, trees, downspouts, driveways, and right-of-way improvements
- Installing additional groundwater monitoring wells to track subsurface water levels at varying depths across the project area
- Testing soils to understand subsurface soil layers across the project area
- Digging shallow and deep infiltration pits to test the speed at which water drains into different types of soil
- Conducting traffic and parking pattern surveys
- Working with Seattle Department of Transportation (SDOT) on permits for the project.
- Development of long-term maintenance plans for the bioretention swales.



Installation of deep groundwater monitoring well

What are we learning?

Field work to date indicates that soils do not infiltrate well consistently across the project area at shallow depths (0-20 feet) although there is a larger, deeper soil layer called Vashon Advance Outwash that does infiltrate well. Field work will continue through mid-January to further examine the Vashon Advance Outwash soil layer to understand what happens to water once it has infiltrated into this layer and the relationship to the regional water table (aquifer). The project team's goal is to site bioretention swales in the best possible location for intercepting stormwater runoff from the street and providing CSO control. The information gathered from the geotechnical testing will ultimately be used to design the bioretention swale system and determine the design for infiltrating into the Vashon Advance Outwash soil layer.



Next Steps

- The project team will continue to survey streets within the project area, sample groundwater and collect and monitor data from the installed wells.
- The data gathered from the field investigations will be plugged into a computer model of the project area. This model will be used to help the team determine the number of bioretention swales that will be needed to control overflows into Puget Sound from the Barton Pump Station.
- Community meeting will held in early 2012 to share results of field work and discuss the locations and approach to the design of bioretention swales.
- Block level outreach and design workshops will be scheduled with neighbors on streets selected for bioretention swales.

Questions? Concerns?

Please contact Kristine Cramer at (206)-263- 3184 or kristine.cramer@kingcounty.gov

Visit the Barton CSO web page:

www.kingcounty.gov/environment/wtd/Construction/Seattle/BartonCSO-GSI

Barton CSO Project Field Work video:

<http://www.kingcounty.gov/environment/wtd/Construction/Seattle/BartonCSO-GSI/Video.aspx>

ALTERNATIVE FORMATS AVAILABLE

206-684-1280 or 711 (TTY Relay)