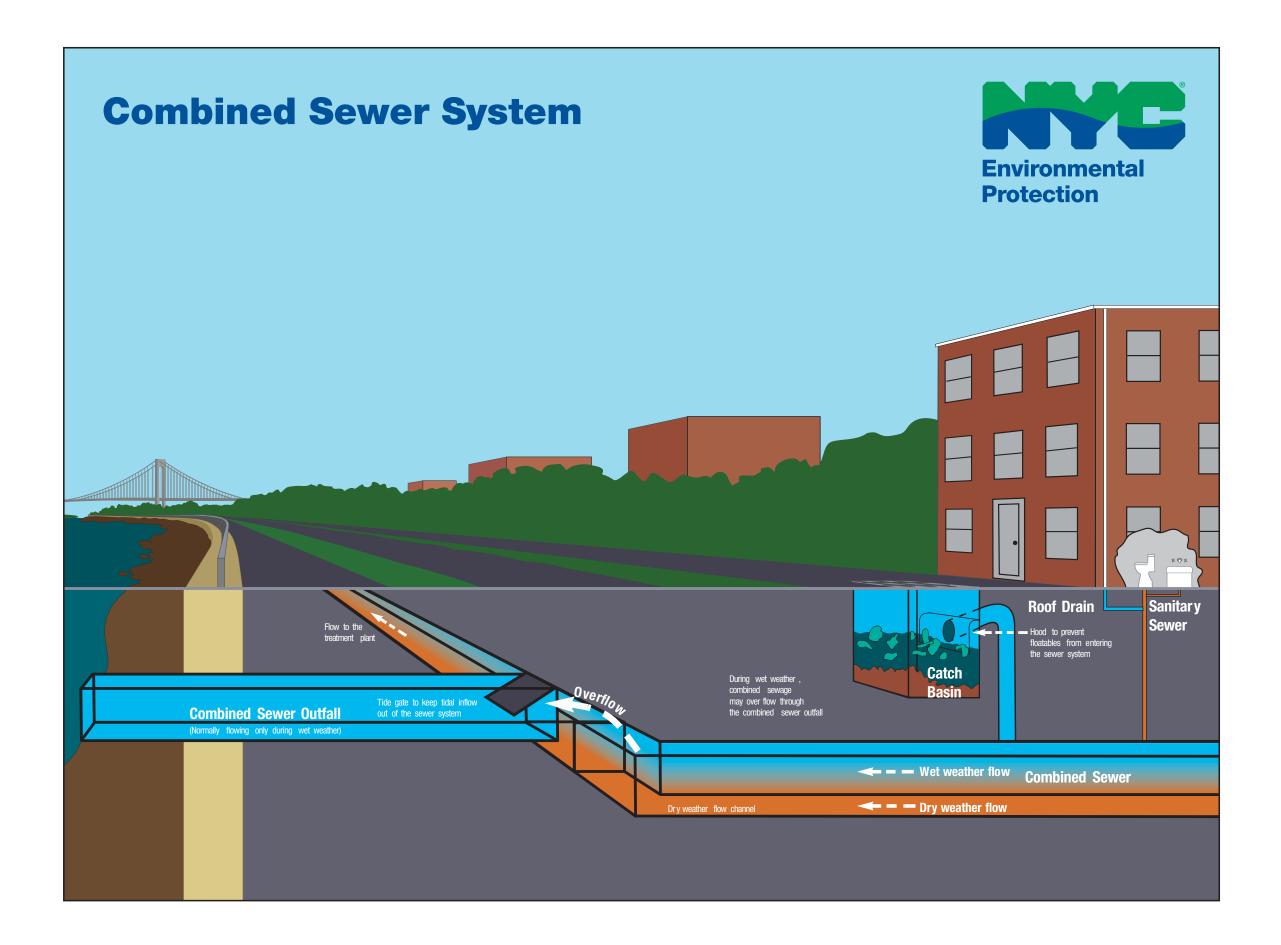


What is a Combined Sewer Overflow?

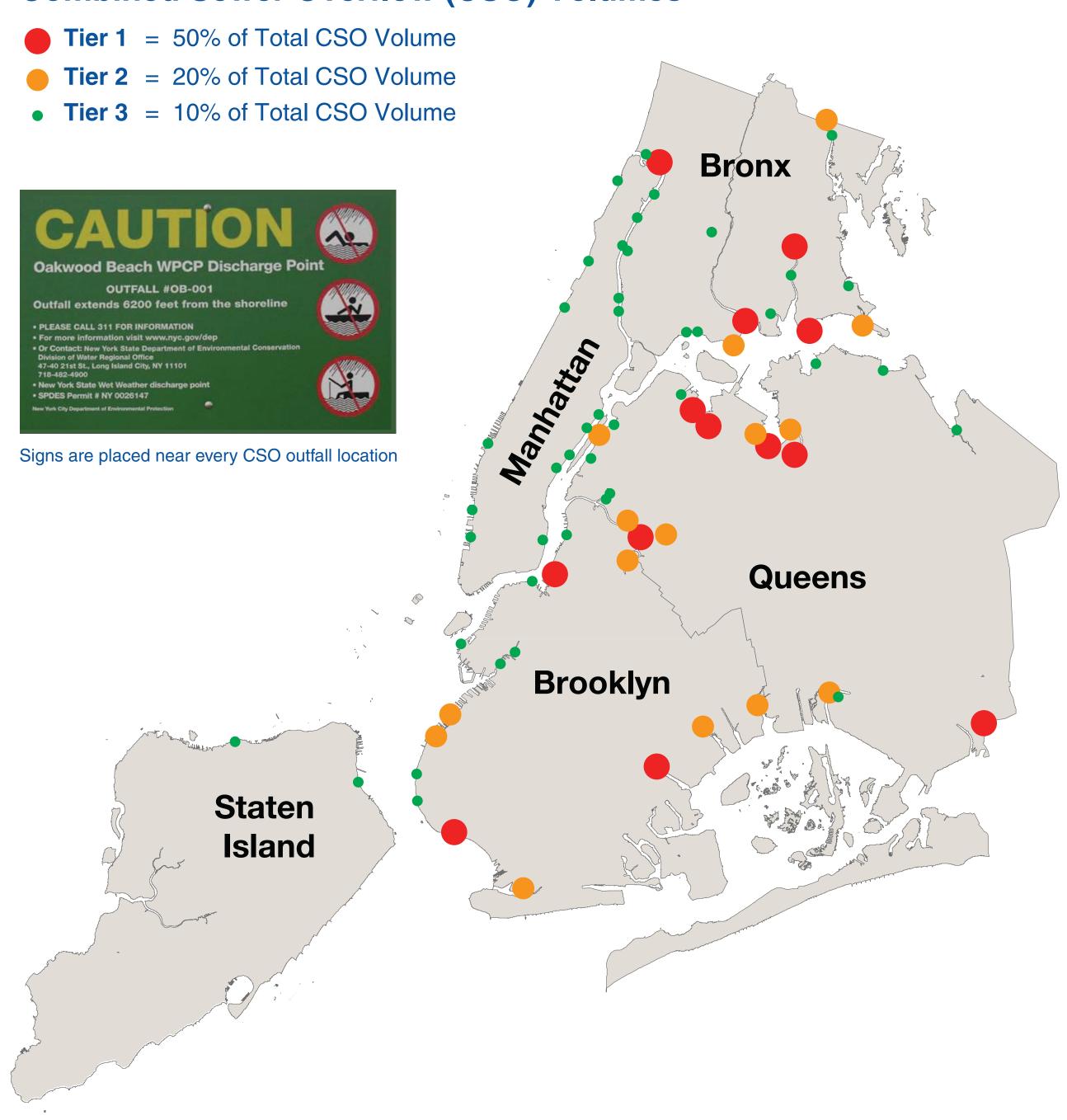
The majority of New York City's sewer system is combined, which means it is used to convey both sanitary and storm flows. Sometimes, during heavy rain and snow storms, combined sewers receive higher than normal flows. Treatment plants are unable to handle flows that are more than twice their design capacity and when this occurs, a mix of excess stormwater and untreated wastewater discharges directly into the city's waterways at certain outfalls to prevent upstream flooding. This is called a combined sewer overflow (CSO). CSOs are a concern because of their effect on water quality and recreational uses in local waterways.





Combined Sewer Overflows in New York City

Combined Sewer Overflow (CSO) Volumes

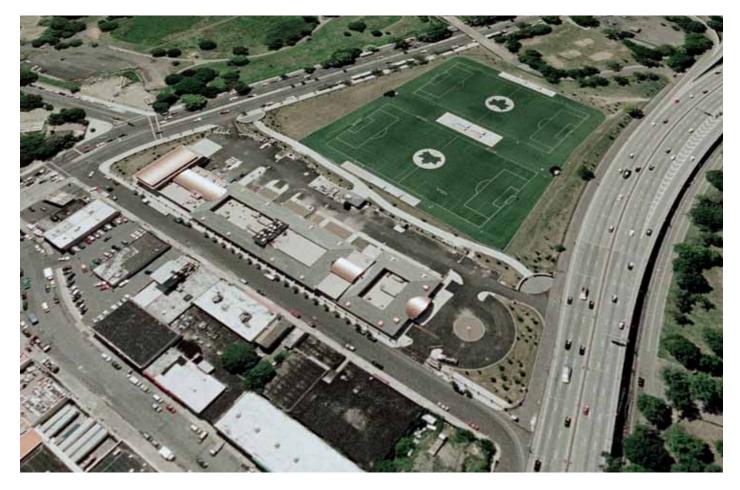




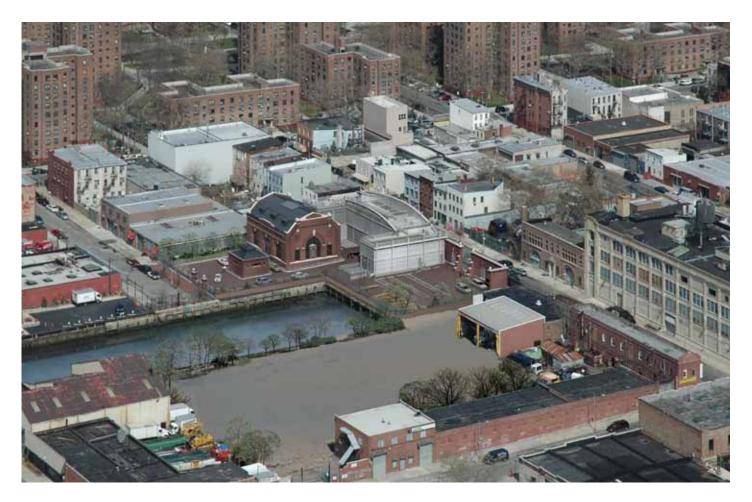
Various Ongoing & Completed CSO Projects



Paerdegat Basin CSO Retention Facility



Flushing Bay CSO Retention Facility



Gowanus Canal Pump Station & Flushing Tunnel



English Kills In-Stream Aeration



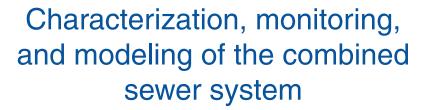
Current Water Quality Standards





Nine Elements of a Long Term Control Plan*







Public participation



Consideration of sensitive areas



Evaluation of alternatives to meet CWA requirements



Cost/performance

considerations

Environmental Protection

Operational Plan



Maximizing treatment at the existing wastewater treatment plant



Implementation schedule



Post-construction compliance monitoring program

^{*} As defined by EPA CSO Control Policy



NYC's Combined Sewer Areas and LTCP Waterbodies

Combined Sewer Watersheds

Other (Separate Sewers, Direct Drainage, Unsewered Areas)

