## King County Wastewater Treatment Division

#### **Capital Projects Update**

Presented to the MWPAAC Comprehensive Engineering and Planning Subcommittee

February 3, 2022



#### **Approximately 200 Ongoing Capital Projects**

Projects in today's presentation fall under two general categories:

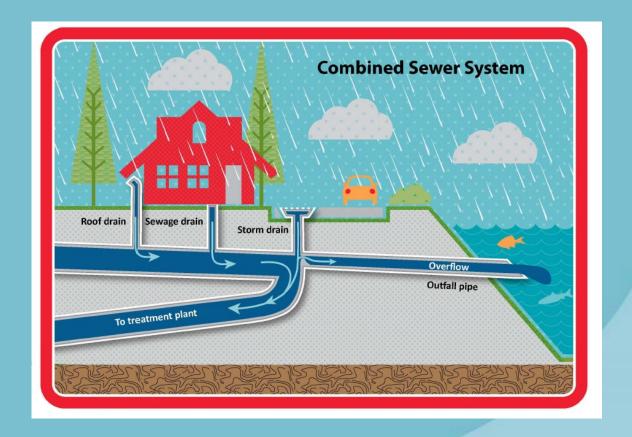
- Providing control and treatment of combined sewer overflows
  - Georgetown Wet Weather Treatment Station
- Preparing for population increase by adding capacity to pipelines and pump stations
  - North Mercer/Enatai Interceptor Upgrade
  - Coal Creek Interceptor Upgrade



# Project Overview - Georgetown Wet Weather Treatment Station

- Problem:

   Combined sewer
   overflow (CSO)
   into the Duwamish
   River
- Solution: Treat
   CSOs before
   discharge to
   Duwamish River



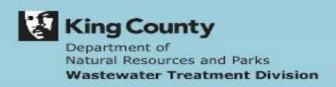


# Location - Drainage Basin



Brandon Street CSO Basin - 234 acres

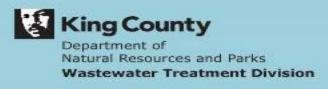
Michigan Street CSO Basin - 1,899 acres



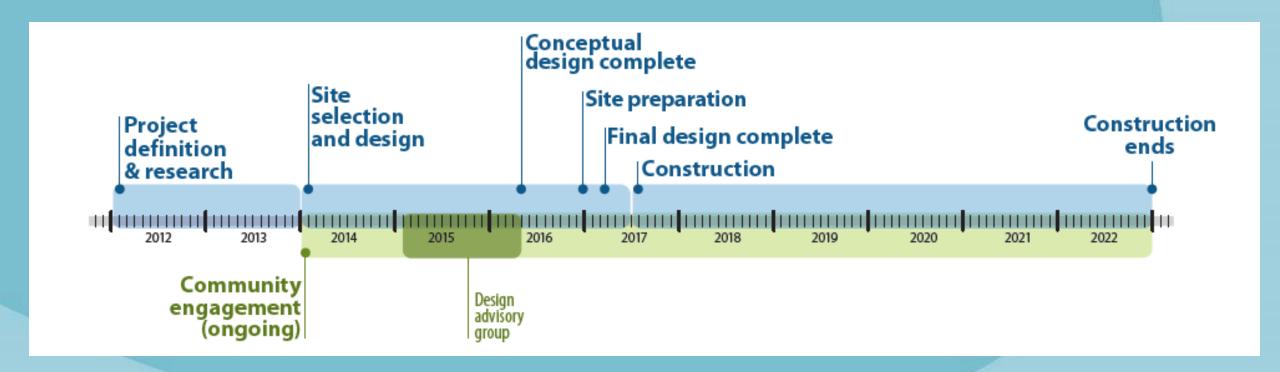
#### **Station Layout**



Facility will be able to treat up to 70 million gallons of combined rain and wastewater per day



#### **Project Schedule**



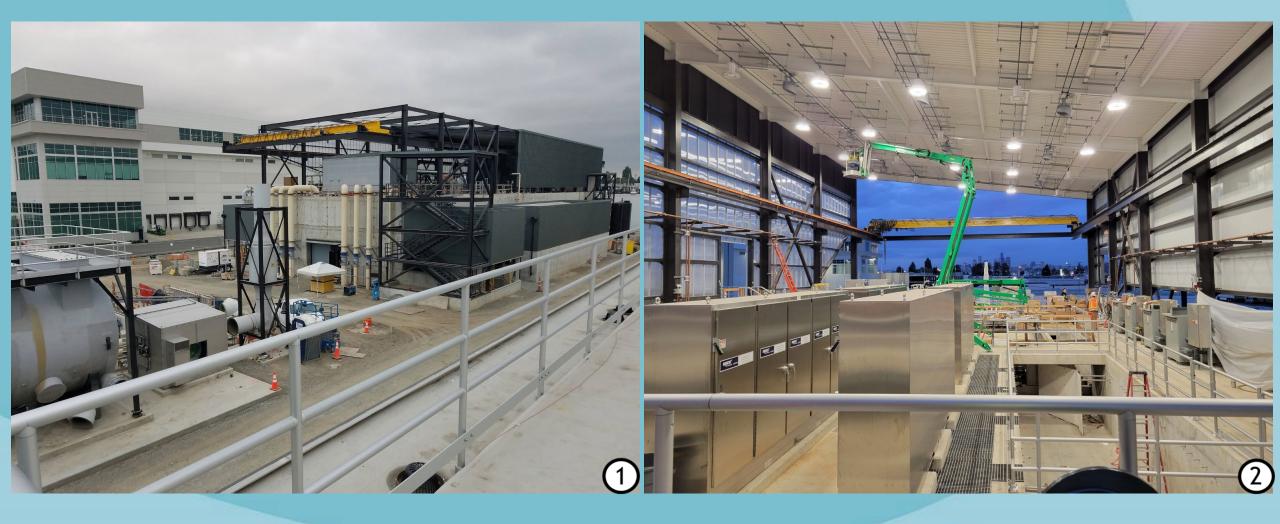


#### **Upcoming Activities**

- Construction nearly 90 percent complete
- Estimated Total Project Cost = \$275 million
- System testing began in Q4 2021
- Team provides notifications through e-mail and project website regarding construction status and lane or sidewalk closures
- Substantial Completion of Construction before December 31, 2022



# Georgetown Wet Weather Treatment Station





# Georgetown Wet Weather Treatment Station







Department of Natural Resources and Parks Wastewater Treatment Division

#### North Mercer/Enatai Interceptor Upgrade

Convey existing and future flows, improve operational flexibility and reliability.

Increase capacity from 9 million gallons per day (mgd) to 10.5 mgd by upgrading pumping equipment, replace force mains and gravity pipe, and rehabilitate existing pipe.

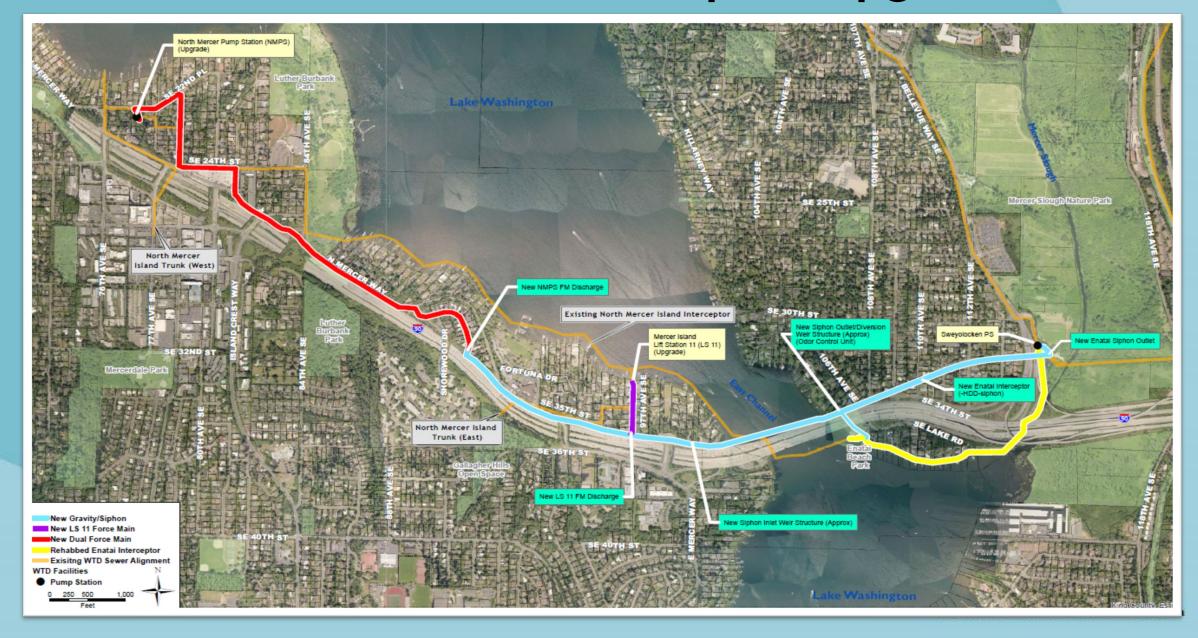
Schedule: Construction 2022-2025

Estimated Total Project Cost:\$150 million





#### North Mercer/Enatai Interceptor Upgrade



## North Mercer/Enatai Interceptor Upgrade











Increase conveyance capacity of the Coal Creek Interceptor from 7-10 mgd to 11-19 mgd (flow depends on location).

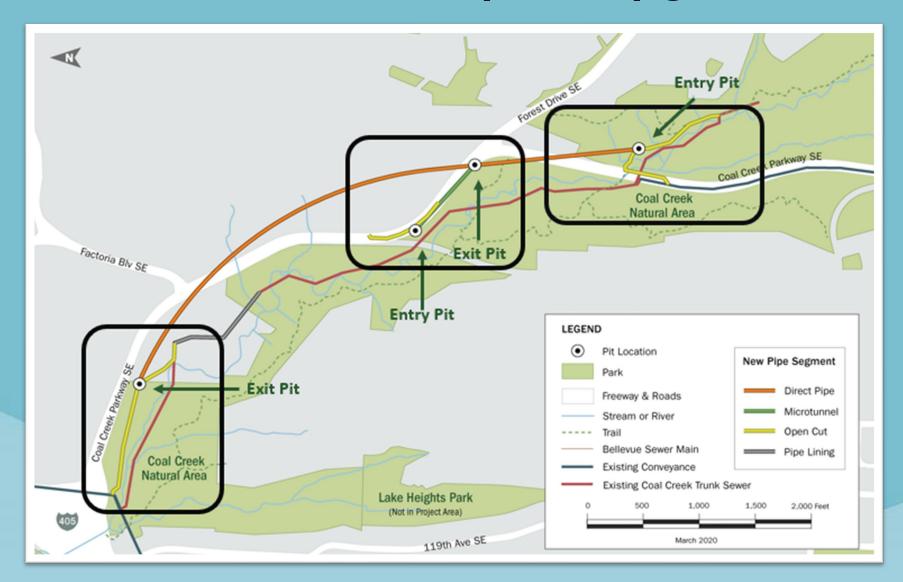
The downstream half of the trunk is 7,100 lineal feet, ranging in diameter from 15 to 21 inches. The upgraded sewer will provide capacity thru 2060.

Status: 90 percent design is almost complete.

Construction to begin in 2023.

Estimated Total Project Cost: \$121 million.

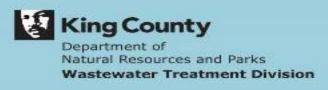




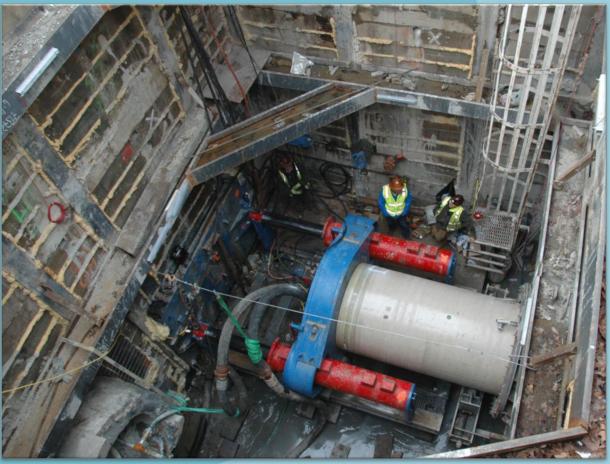


#### Schedule











Moves much of the active pipe away from Coal Creek, where it is at risk from floods and bank erosion.





2007 (above) 2015 (left)



## **Questions/Contact**



Stan Hummel - Capital Projects Managing Supervisor

