

City Council Committee: Parks, Public Utilities & Technology Project Update – April 10, 2024



# Agenda

- 1. Background Combined Sewer Overflows
- 2. Project Overview
- 3. Cost and schedule factors
- 4. Next steps



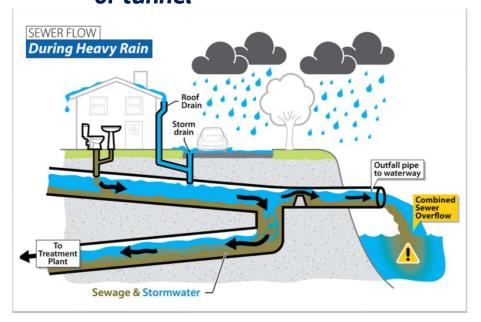


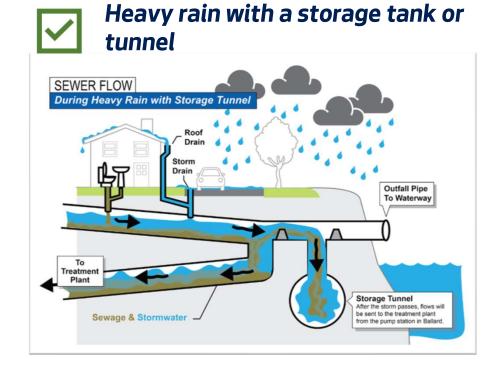


# **Combined Sewer Overflows (CSO)**



# Heavy Rain <u>without</u> storage tank or tunnel





### 2013 Wastewater Consent Decree

- With US Department of Justice, US Environmental Protection Agency, and WA Department of Ecology
- Performance requirement:
  Less than 1 CSO per outfall per year on a 20-year moving average

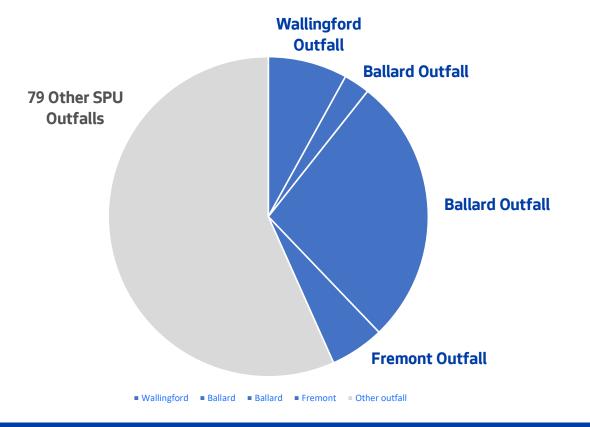
# SPU investments to reduce CSOs since 2013:

- 3 major tank projects
- 2 major green stormwater projects
- 51 sewer system improvement projects

Plus the Ship Canal Water Quality Project and several green stormwater projects are under construction.



### Seattle's 2023 Combined Sewer Overflow Volume



43%

of Seattle's 2023 combined sewer overflow volume came from SPU's **four** Ship Canal Water Quality Project outfalls

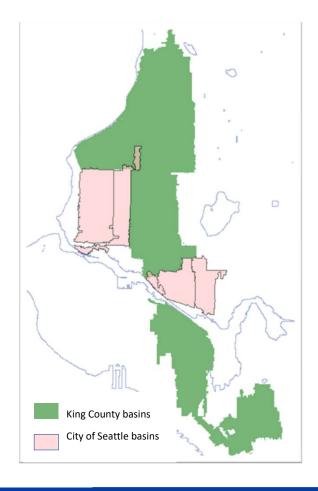
**57%** of Seattle's 2023 combined sewer overflow volume came from SPU's remaining **seventy-nine** outfalls

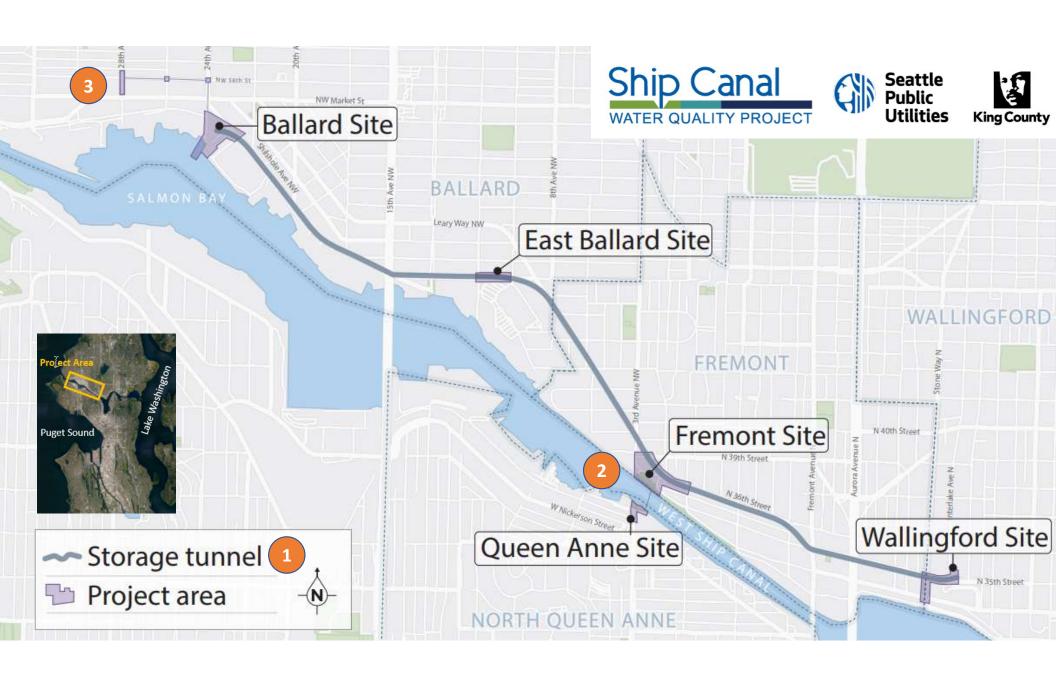




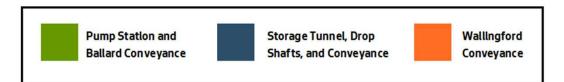


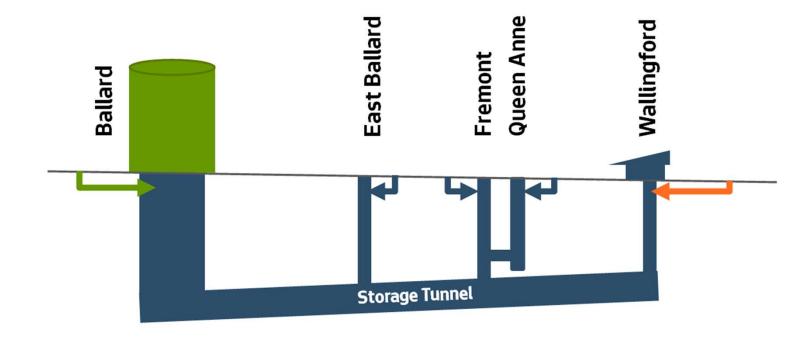
- Reducing Seattle's CSOs. Improving regional water quality.
- Joint Project with King County
  - Joint Project Agreement: City of Seattle (65%), King **County (35%)**
  - Addresses six outfalls: 2 King County, 4 Seattle
- Construction underway





# **Project Components**

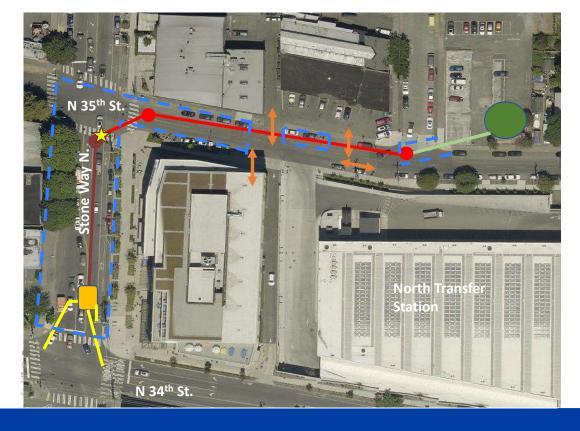






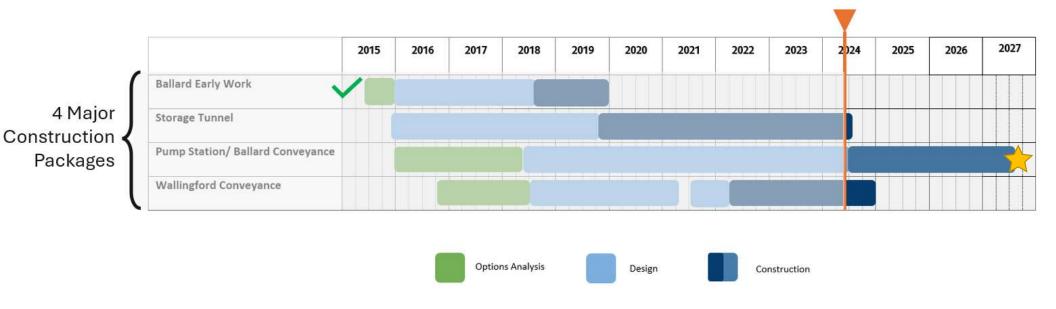


# **Under Construction: Wallingford Conveyance**





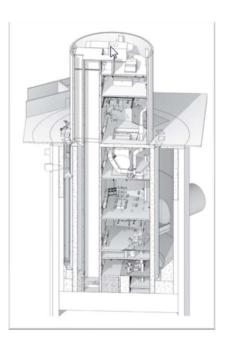
# **Progress to Date**



# **Ballard Conveyance and Pump Station**







### Our cost estimate and schedule

#### Cost estimates include:

- Base Costs
- Escalation
- Uncertainties and Risks

#### **2018 Cost Estimate**

\$570M with a 65% confidence\*

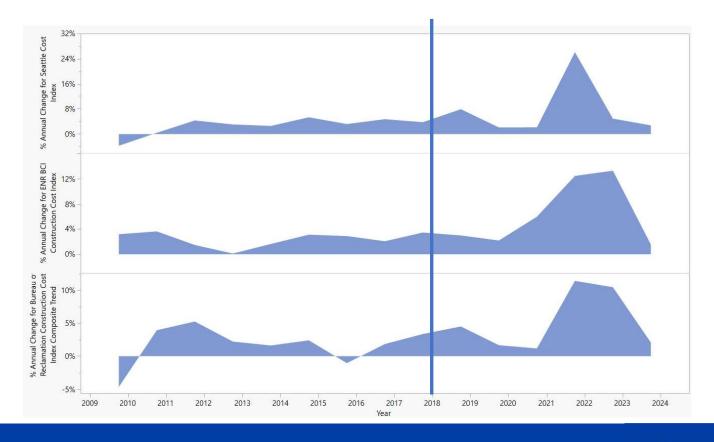
\*65% chance costs will be at or below the estimated cost and 35% chance the estimated cost will be exceeded

Over the past 6 years, we have experienced unprecedented escalation and pandemic impacts, and unlikely risk events.

- ✓ Expect to increase budget and extend schedule
- ✓ Committed to our existing rate path



### **Escalation**



# **Underground Risk Events**

### How we prepared

- Conducted 73 borings along alignment to establish underground conditions
- Construction contract included "anticipated ground conditions" including 88 boulders greater than 3 feet diameter

#### What we encountered

### A 12-foot diameter mega-boulder

- Risk register covered at 5% likelihood
- Contractor asserted damages of ~3.5 months, \$17M

#### Inaccurate "As-built" records

- Underground infrastructure not per as-builts
- \$1.8M impact



# **Ballard Pump Station and Conveyance Bids**

**Bid Solicitation #1** Feb-April 2023

Re-bid determination & decision April – June 2023

**Analyze and Implement changes** June-Dec 2023

Bid Solicitation #2 Jan-March 2024

**Evaluate & select bid** 



# Working on Project Update

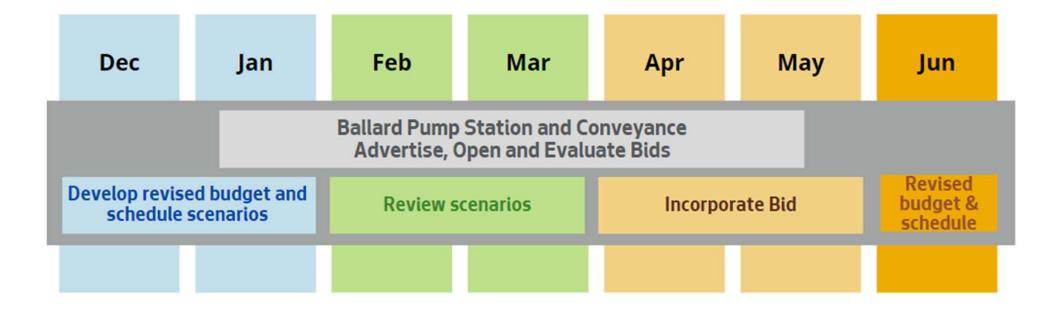
- Increases due to escalation, Covid impacts, and underground risk events
- Continuing to implement cost saving measures and managing schedule adjustments
- Costs will be managed within our future rate path with no impact to City's General Fund





# **Project Update Process**

### Revised Cost and Schedule Milestones



# **Summary**

- Joint project with King County to reduce CSOs.
- Project construction packages: 1 complete, 2 underway, 1 starting this year.
- Escalation, the pandemic, and underground events have impacted project cost and schedule.
- Revised cost and schedule expected in June 2024.
- Project costs will be managed within our rate path established in the future Strategic Business Plan.



