



**Seattle
Public
Utilities**



King County

Ship Canal Water Quality Project

SCWQP: Tunnel Effluent Pump Station (TEPS)- Ballard Conveyance (PW# 2021-029) Industry Outreach for Re-Bid

July 2023

This project is funded in part by the Washington State Department of Ecology and Environmental Protection Agency through State Revolving Fund and Water Infrastructure Finance and Innovation Act loans



United States
Environmental Protection
Agency



DEPARTMENT OF
ECOLOGY
State of Washington



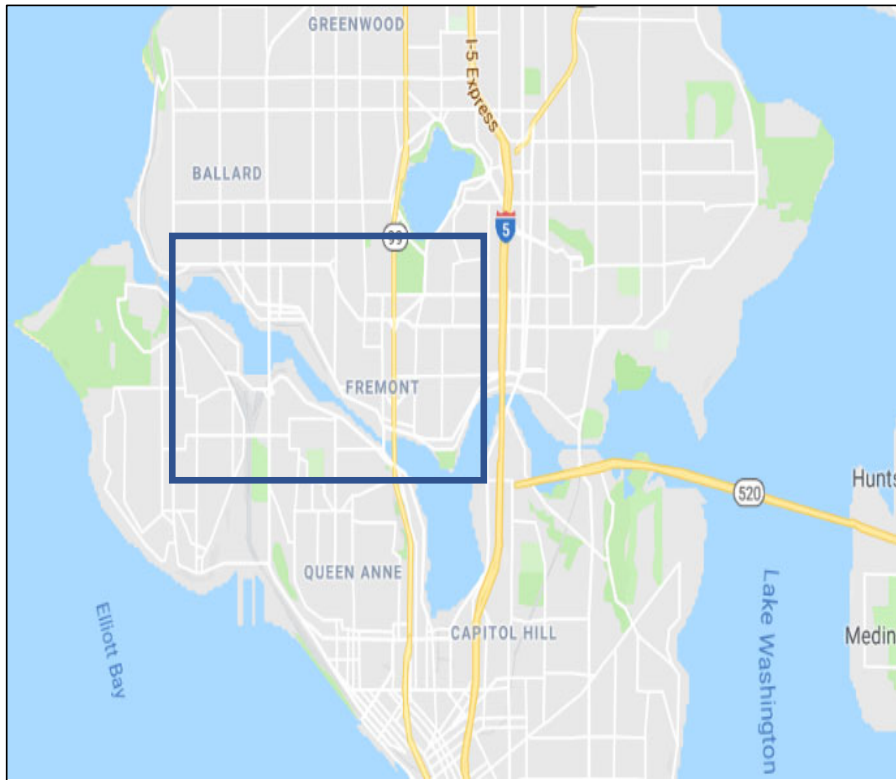
City of Seattle

Presentation Summary

1. Ship Canal Water Quality Project Overview
2. Pump Station (TEPS) and Ballard Conveyance Overview
3. Re-Bid Information
4. Changes to be Incorporated for Re-Bid
5. Questions to the Contracting Community



1. Ship Canal Water Quality Project



Consent Decree

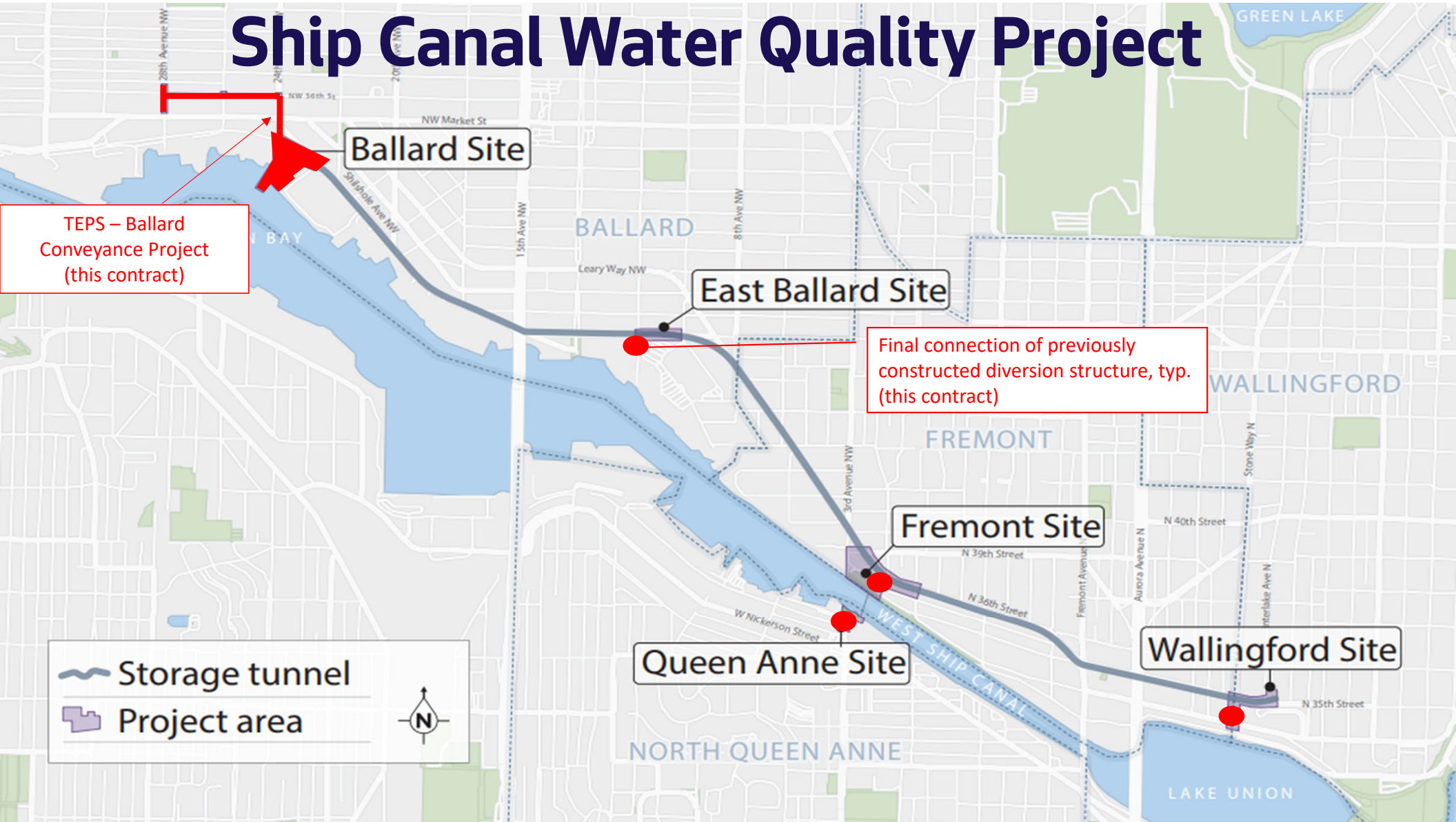
- With US Department of Justice, US Environmental Protection Agency, and WA Department of Ecology
- Must reduce combined sewer overflows to 1 per year per outfall on a 20-year moving average

Joint Project: King County & City of Seattle

- 6 Outfalls: 2 KC, 4 Seattle

This project will improve water quality by reducing about 75 MG of SPU and King County's combined sewer overflows per year.

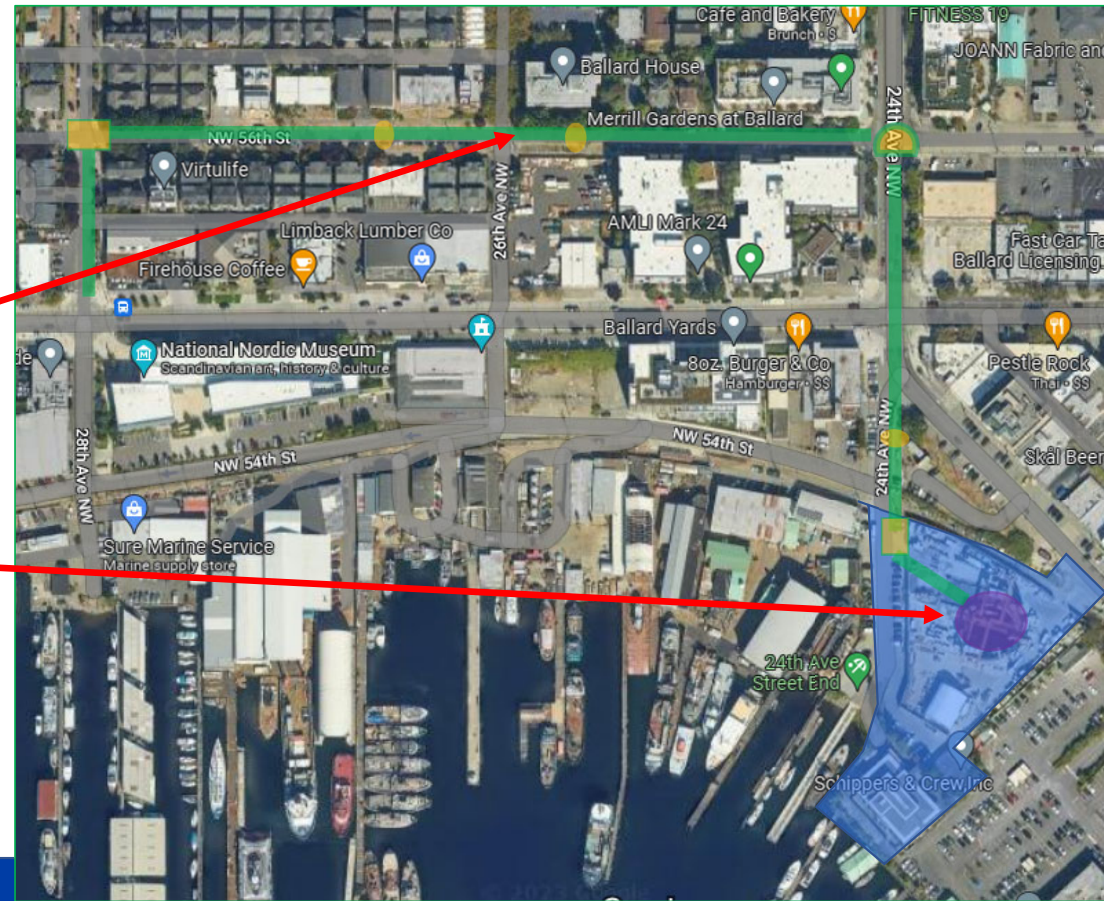
Ship Canal Water Quality Project



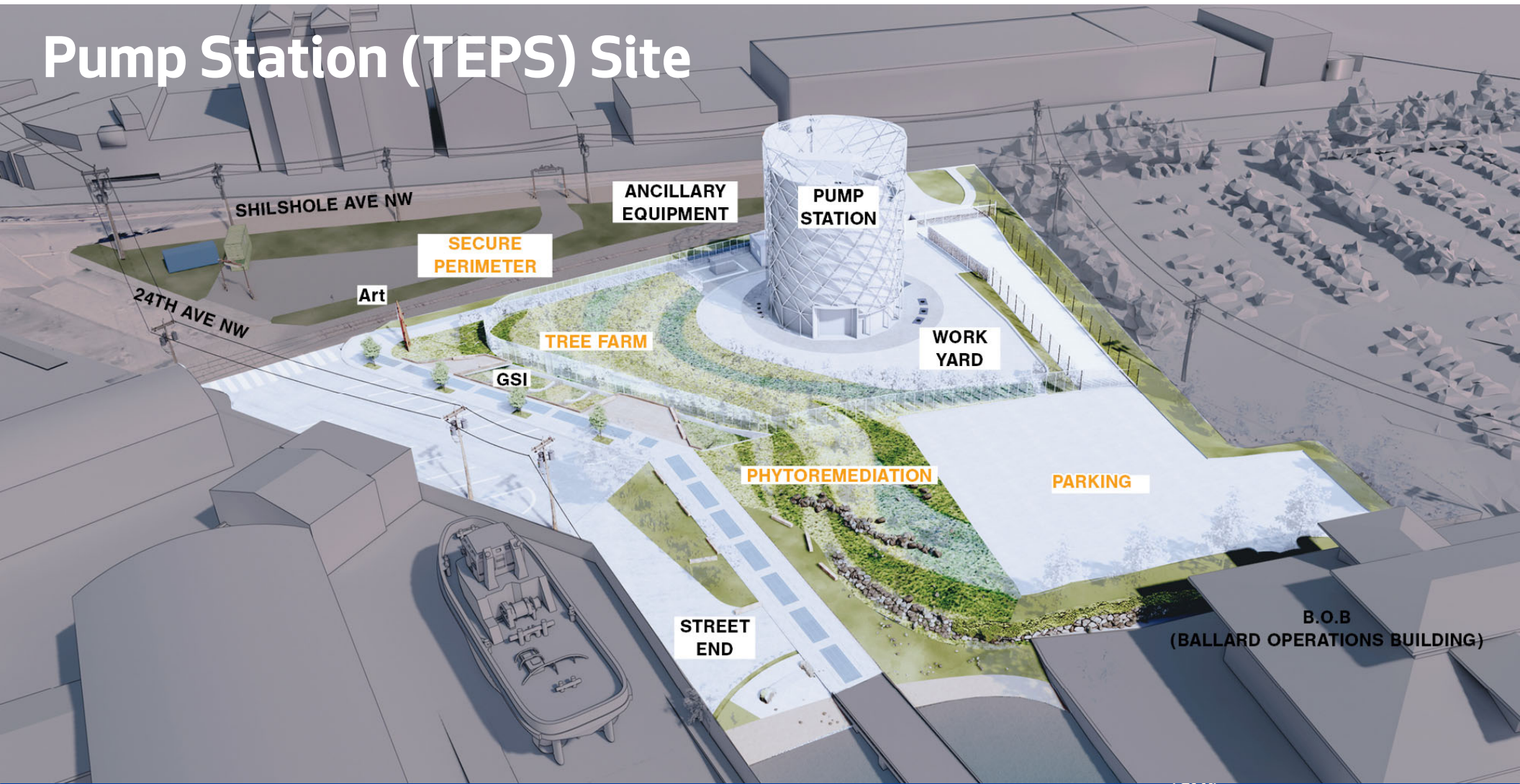
2. Pump Station (TEPS) and Ballard Conveyance Project

3 Distinct Scopes:

1. 9 ft diameter microtunnel
2. 12 MGD Pump Station
3. Overall Facility startup & commissioning

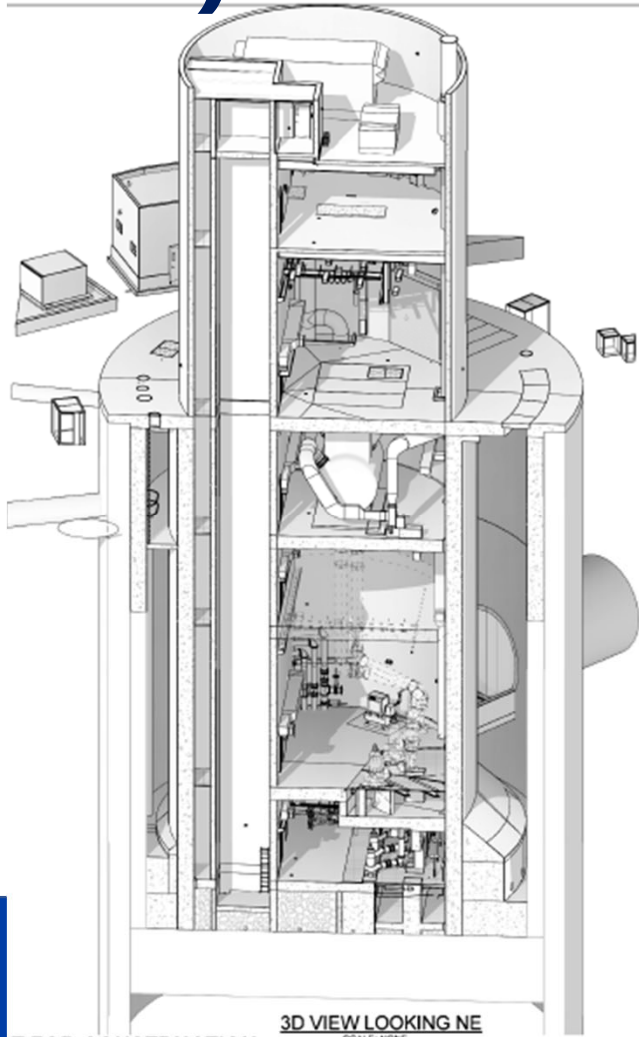


Pump Station (TEPS) Site

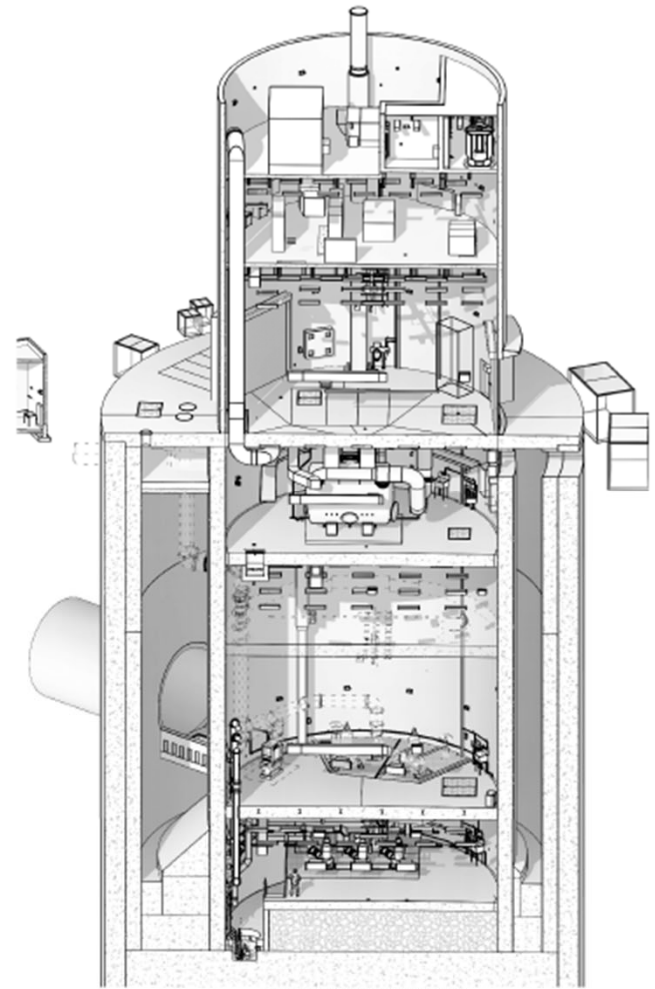


Pump Station (TEPS)

- 12MGD Pump Station
 - 108 ft shaft depth
 - 80 ft tall building
 - Site restoration
- Startup & commissioning of entire Ship Canal Facility



3D VIEW LOOKING NE
SCALE: NONE

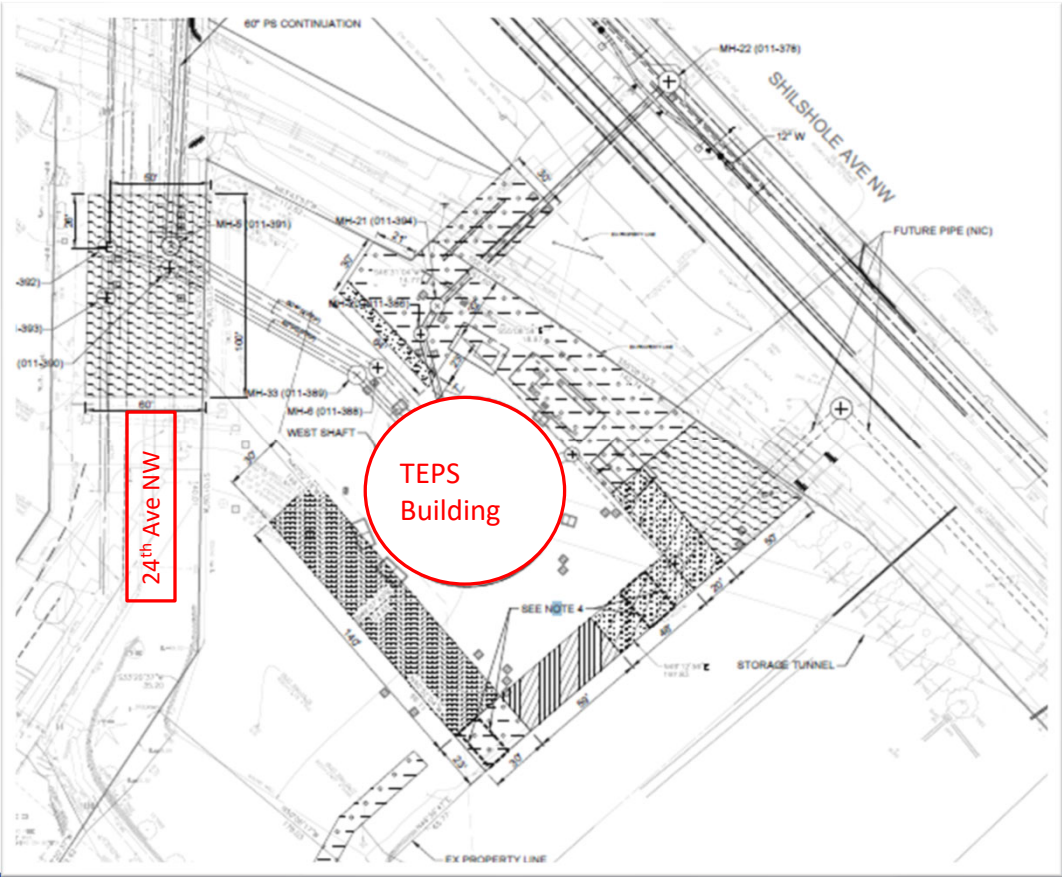


3D VIEW LOOKING SE
SCALE: NONE


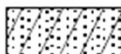
NOT FOR CONSTRUCTION

MECHA

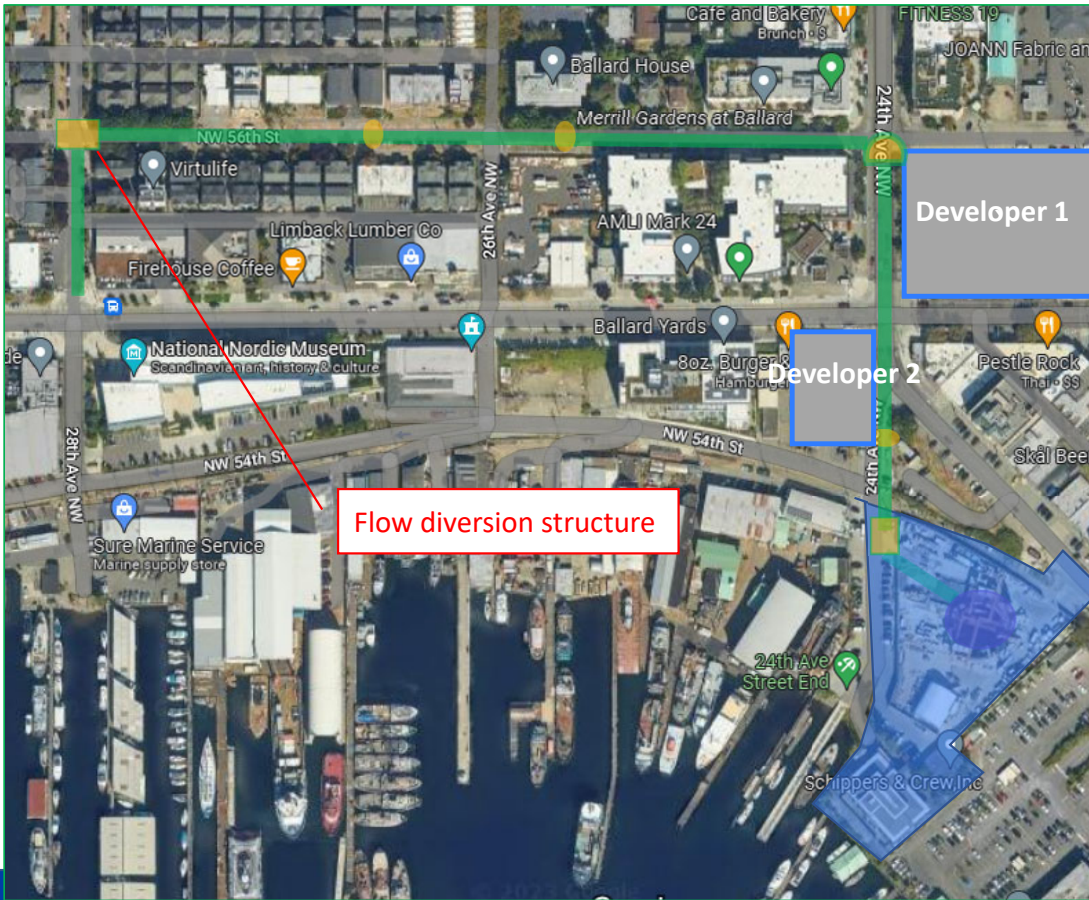
Contaminated Soil Extents



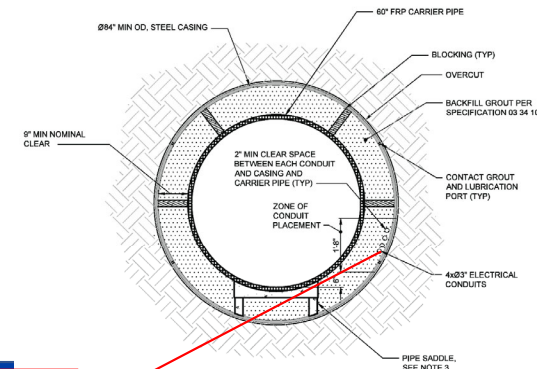
LEGEND:

-  SOIL CONTAMINATED FROM GROUND SURFACE TO 4 FEET BELOW GRADE
-  SOIL CONTAMINATED FROM GROUND SURFACE TO 5 FEET BELOW GRADE
-  SOIL CONTAMINATED FROM GROUND SURFACE TO 7 FEET BELOW GRADE
-  SOIL CONTAMINATED FROM GROUND SURFACE TO 8 FEET BELOW GRADE
-  SOIL CONTAMINATED FROM GROUND SURFACE TO 14 FEET BELOW GRADE
-  SOIL CONTAMINATED FROM 4 FEET TO 10 FEET BELOW GRADE

Ballard Conveyance



- ~2,000 ft of 9 ft diameter Microtunnel
- 2 pass system
- 6 shafts, 4 contractor-designed
- Flow diversion structure



2 pass for power & comm. conduits

TUNNEL SECTION W/ STEEL CASING PIPE
SECTION TAKEN IN THE DIRECTION OF CONVEYANCE FLOW (DOWNSLOPE) BAL-CT-201

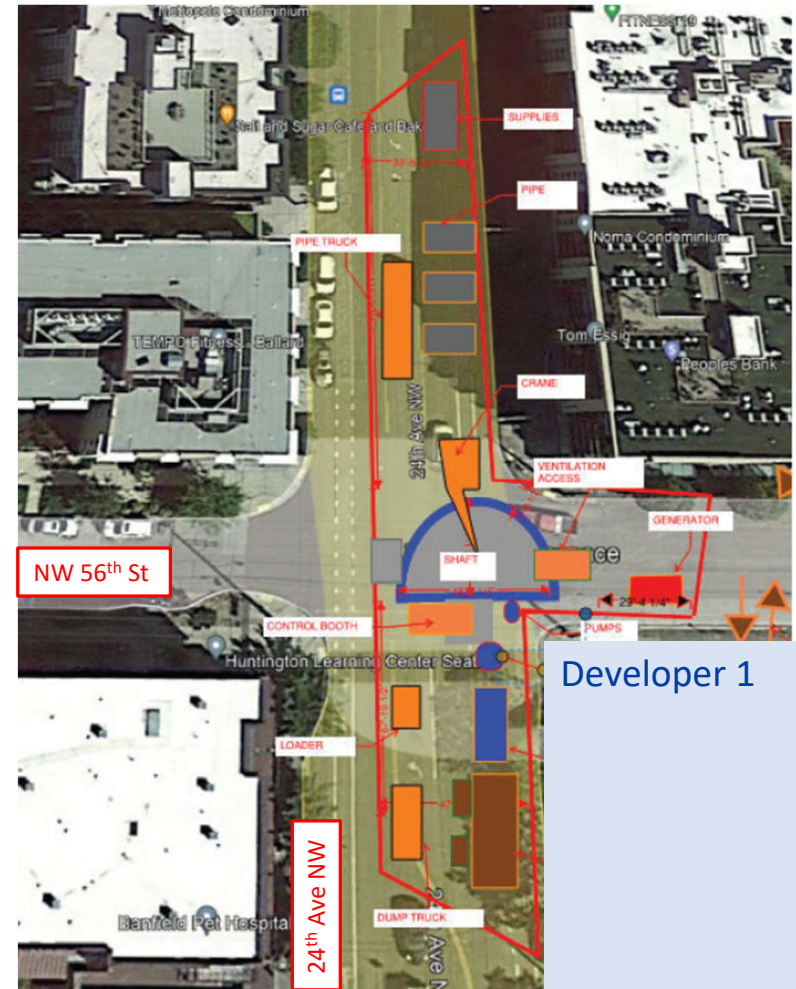
Ballard Conveyance

Developer 1 Coordination:

- 24th Ave NW & NW 56th St
- Developer construction complete late 2024
- Executed MOA to define coordination (communication, staging area, traffic detours, access, etc.)

Developer 2 Coordination:

- NW Market St & 24th Ave NW
- Construction estimate 5/2024 - 5/2026

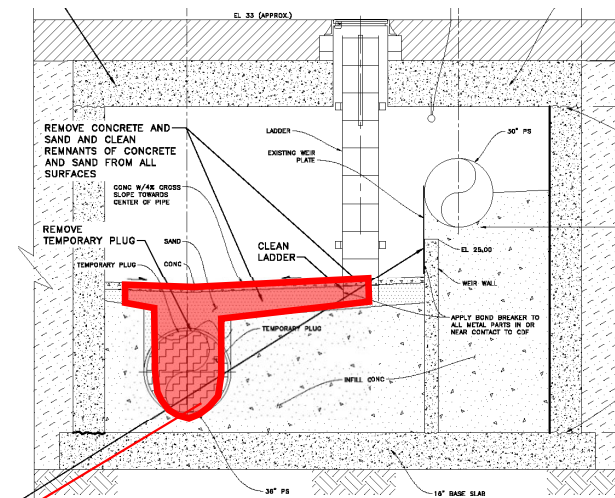


Work at Previously Constructed Diversion Structures

Scope:

Remove CDF plug/temporary piping & make final connection at previously constructed diversion structures - 4 separate sites.

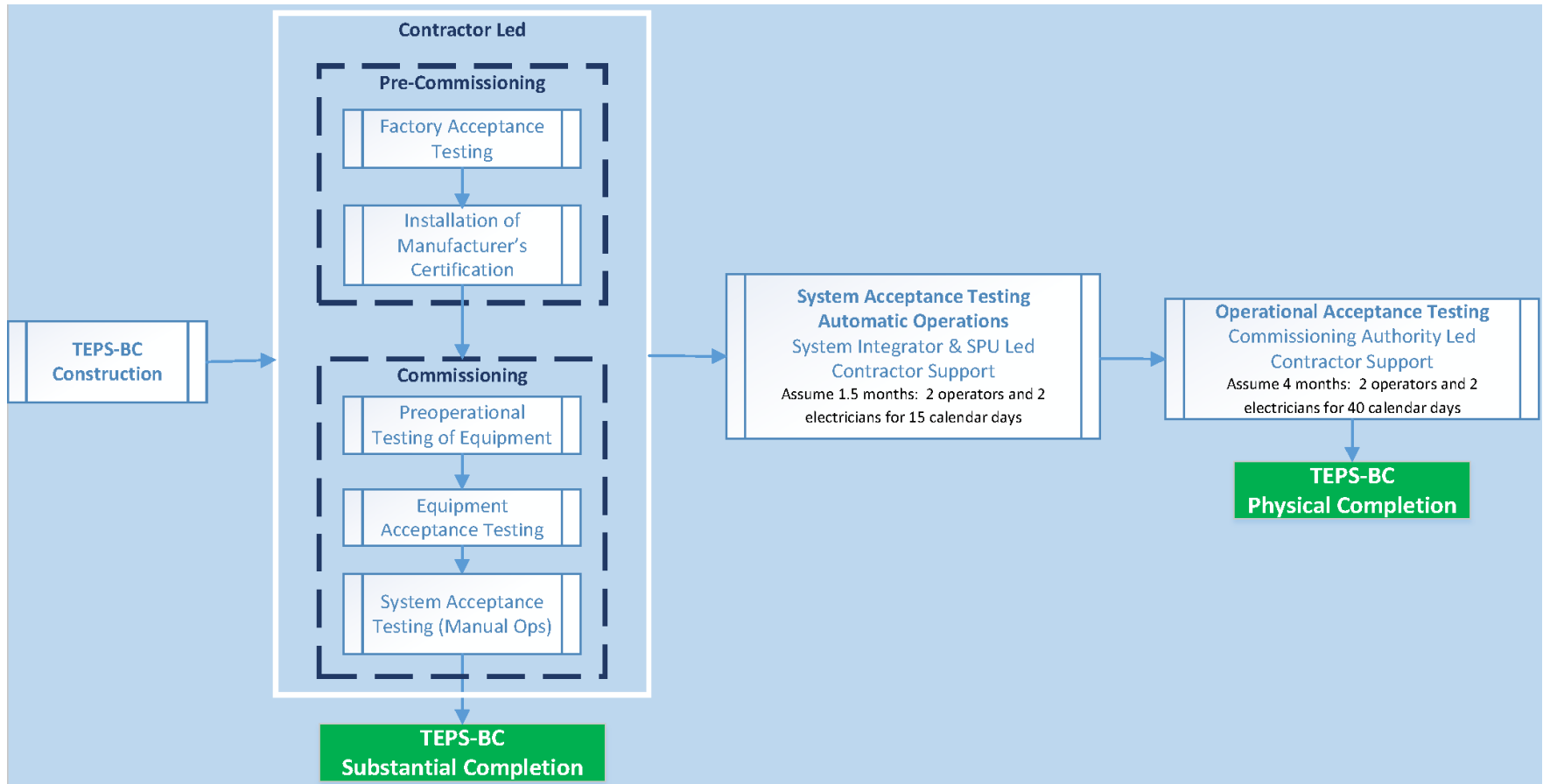
Example:



EXISTING 147A DIVERSION STRUCTURE

CDF plug to be removed

Commissioning Process



3. Re-Bid Information

- Public Works Contract #: 2021-029
- Anticipated Advertisement: 4th quarter 2023 or early 2024
- Bid Opening: Q1 2024
- Engineer's Estimate: \$117M for original bid process
- Construction Duration:
 - 658 Working Days NTP to Substantial Completion
 - 770 Working Days NTP to Physical Completion
- City bidding website: <https://seattle.procuware.com/home>



Information for Re-bid

- Federal funding- American Iron & Steel, Davis-Bacon wage requirements, Federal DBE process
- Schedule incentive- \$5,000/day for early Substantial Completion, max of \$250,000
- City Workforce Agreement (CWA) requirements
- Owner will issue Notice to Proceed max 80 Working Days following Contract Execution Date – so that this time can be used for early submittals, permits, long lead items



4. Changes to be Incorporated for Re-Bid

- Mutual waiver of, or cap on, Consequential Damages.
- Architect/Engineer Professional Liability Insurance reduced to \$10M policy, with option of the General Contractor to fully or partially indemnify subs.
- Remove lattice tower framing fabricator certification requirement, replace with experience qualifications.
- Clarify permit requirements, bid process for contractor-designed elements.
- There may also be a limit on liquidated damages and Consent Decree penalties and more flexibility for contractor designed elements.



5. Questions for Contracting Community

1. Is this project better as a combined TEPS/Ballard Conveyance contract, or as two separate, concurrent construction contracts?
2. Would Ballard Conveyance microtunneling be better as a performance or a prescriptive specification?
3. What are "no-go" items your firm considers when deciding to pursue a bidding opportunity?
4. When is an ideal schedule window for this re-bid?
5. Would your firm typically bid as a sub., prime, or a microtunneler?
6. Any other suggestions for SPU on the upcoming TEPS/Ballard Conveyance bid?
 - Please respond using the feedback form located on Procureware (where you found this presentation)





**Please provide feedback & questions!
Feedback form available on Procureware:**

<https://seattle.procureware.com/home>